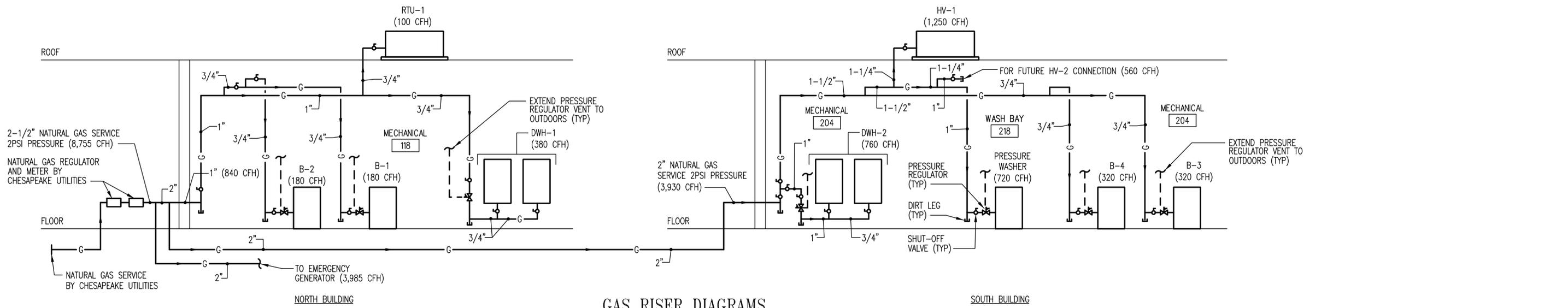


DOMESTIC RISER DIAGRAMS
SCALE: NOT TO SCALE

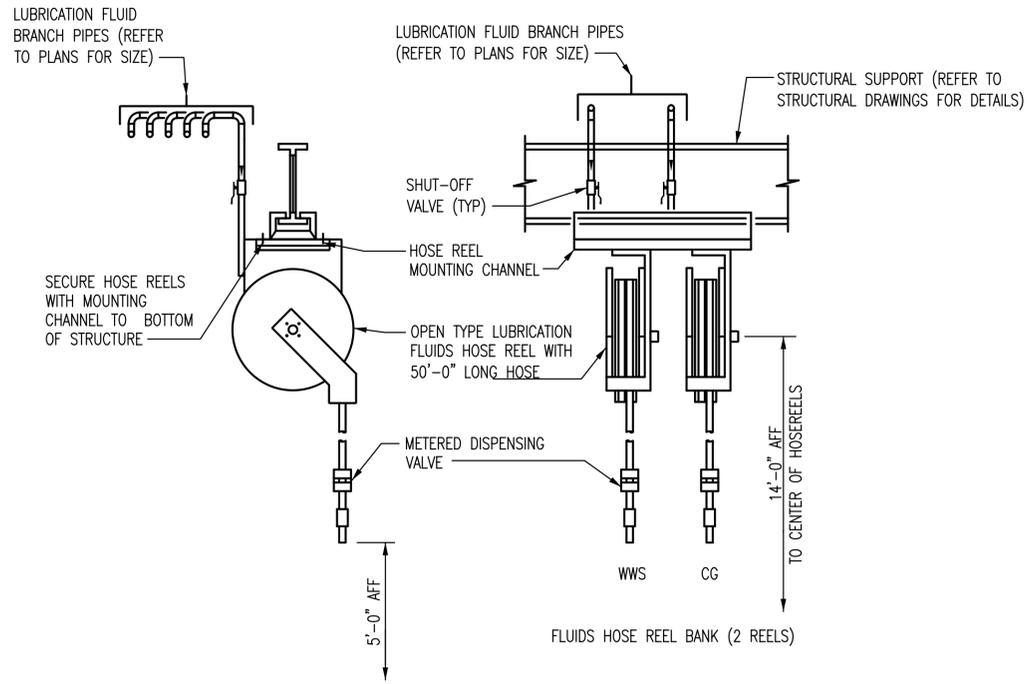


GAS RISER DIAGRAMS
SCALE: NOT TO SCALE

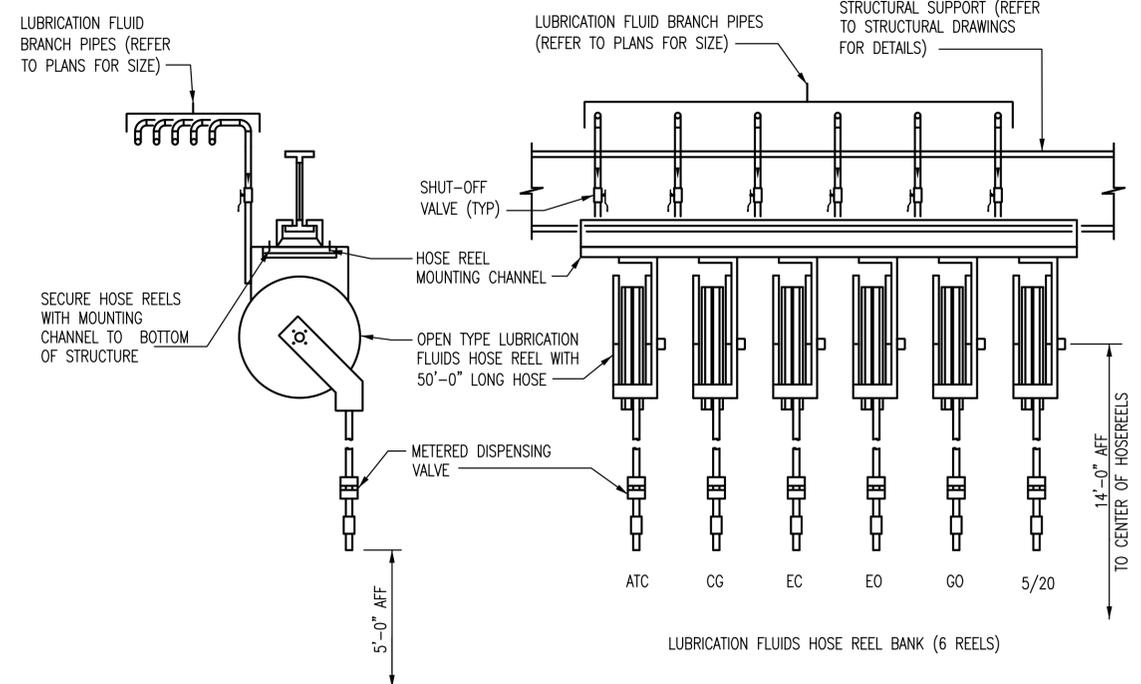
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ADDENDUMS / REVISIONS	

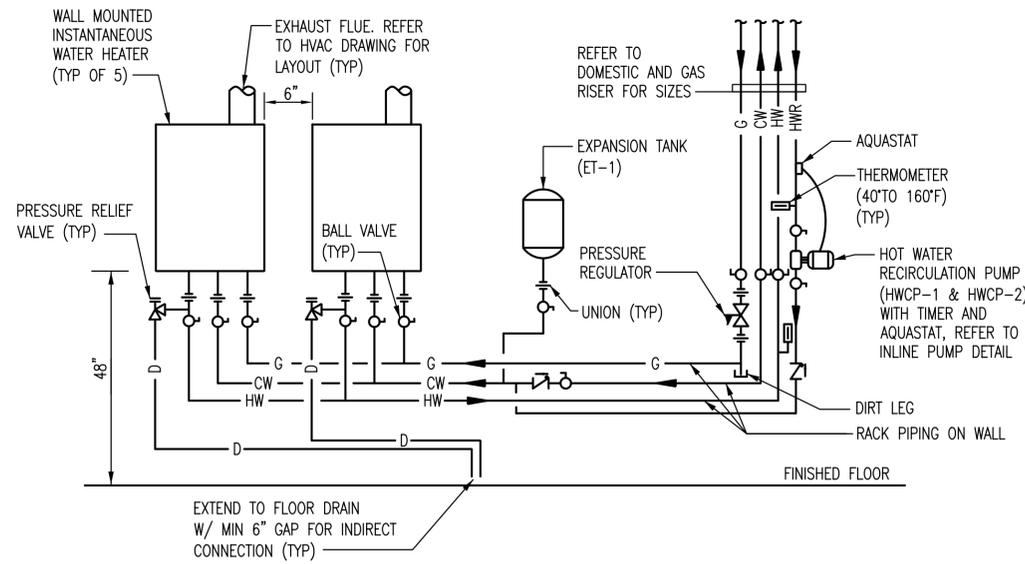
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COUNTY	SUSSEX	DESIGNED BY:	TTM/ALM
		CHECKED BY:	CEH



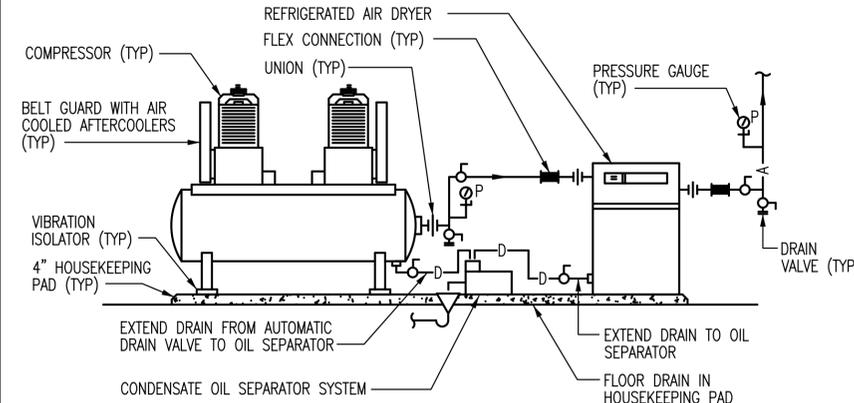
1 LUBRICATION FLUIDS HOSE REEL BANK
P-601 SCALE REF:



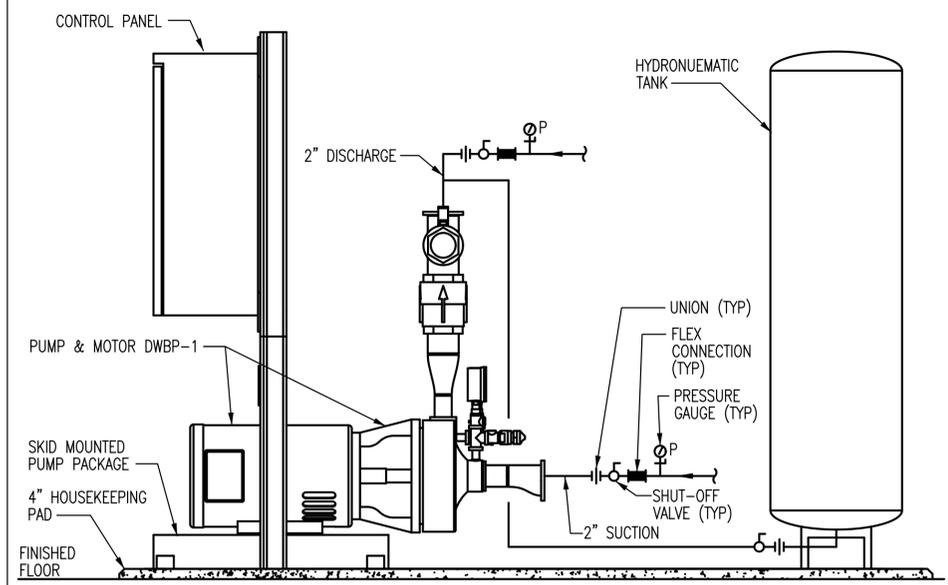
2 LUBRICATION FLUIDS HOSE REEL BANK
P-601 SCALE REF:



3 GAS FIRED INSTANTANEOUS WATER HEATER CONNECTION (DWH-1 & DWH-2)
P-601 SCALE REF:



4 TANK MOUNTED DUPLEX AIR COMPRESSOR
P-601 SCALE REF:

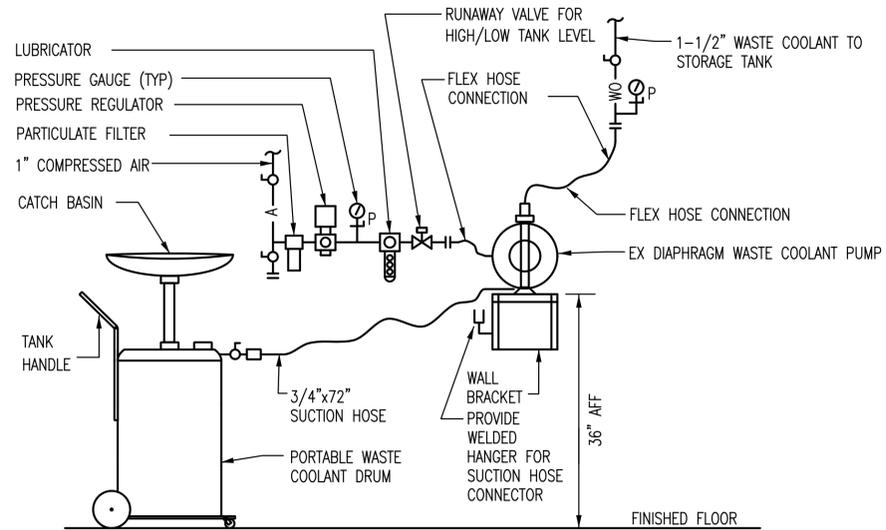


5 DOMESTIC WATER BOOSTER PUMP PACKAGE
P-601 SCALE REF:

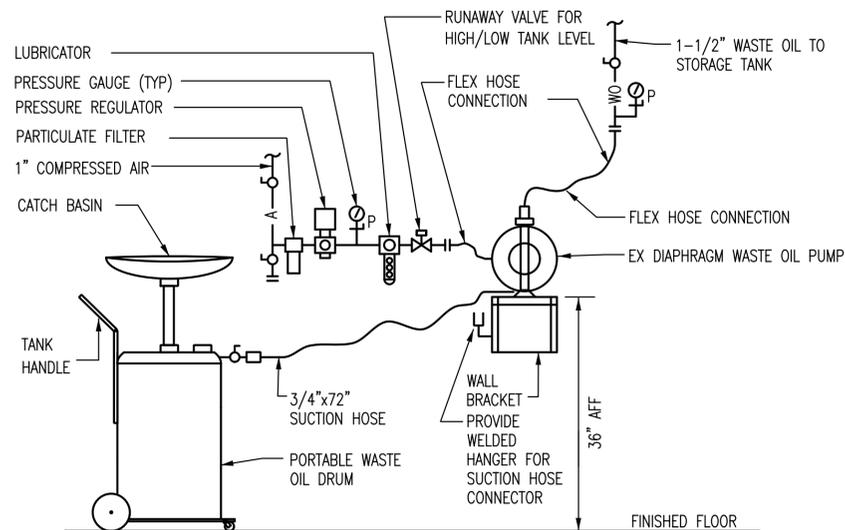
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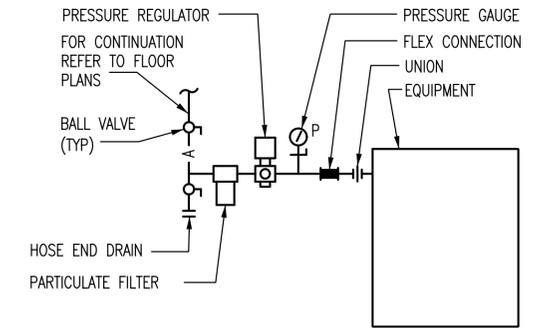
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T200612502	
COUNTY	DESIGNED BY: TTM/ALM
SUSSEX	CHECKED BY: CEH



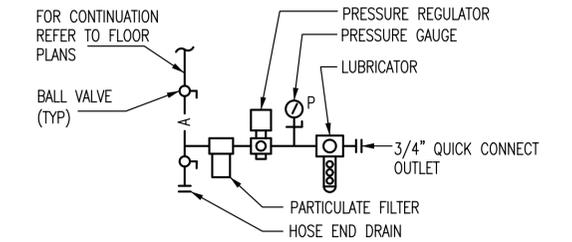
1 WASTE COOLANT PUMP CONNECTION
P-602 SCALE REF:



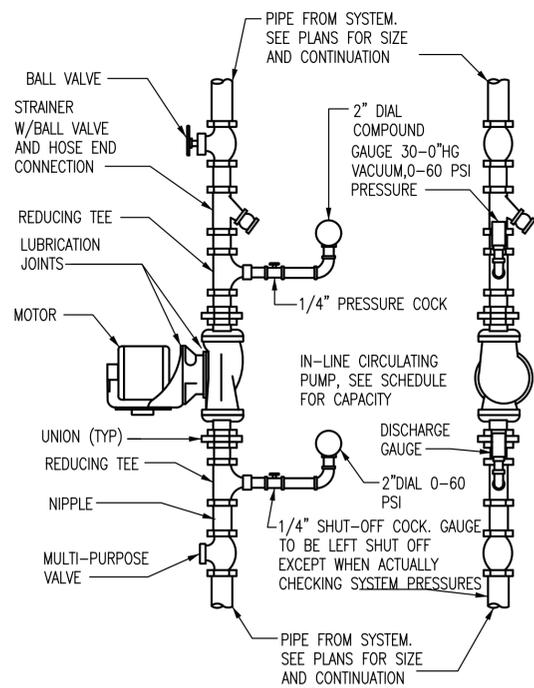
2 WASTE OIL PUMP CONNECTION
P-602 SCALE REF:



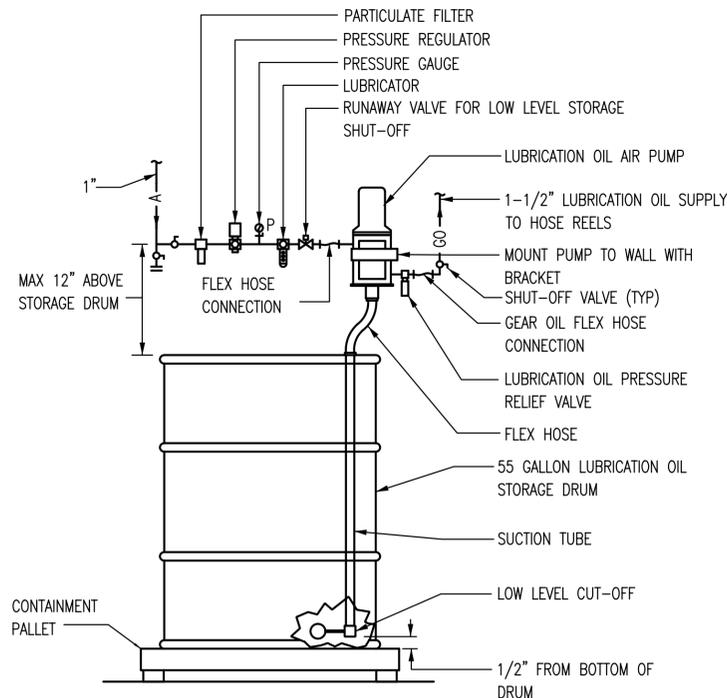
3 COMPRESSED AIR CONNECTION TO EQUIP
P-602 SCALE REF:



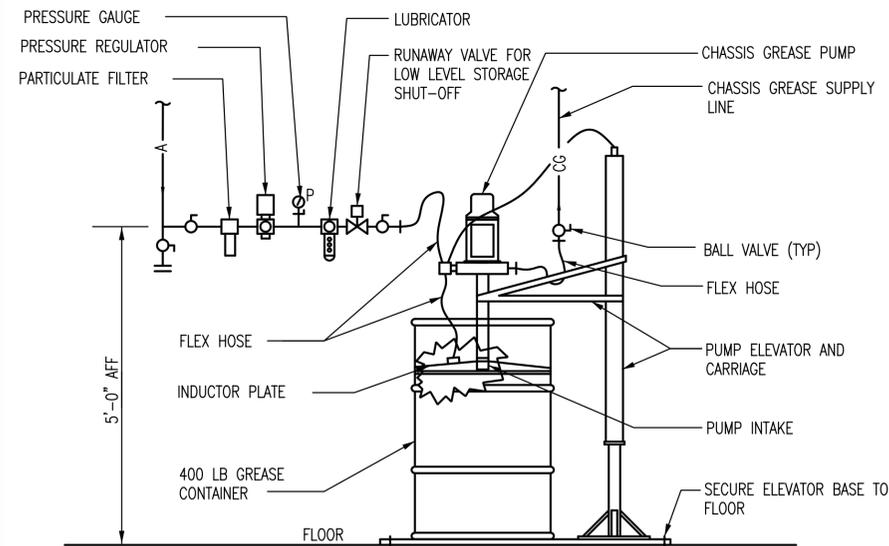
4 COMPRESSED AIR DROP CONNECTION
P-602 SCALE REF:



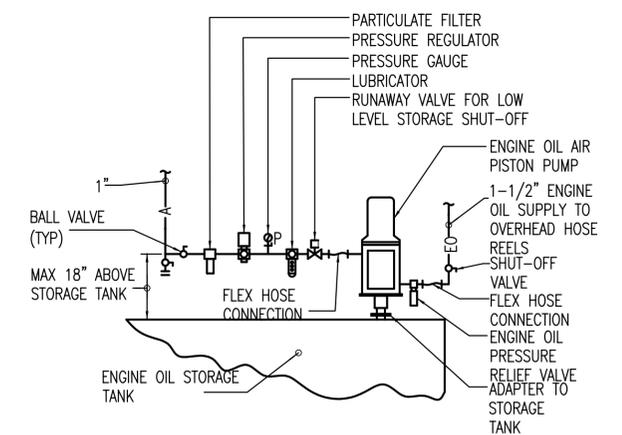
5 IN-LINE PUMP
P-602 SCALE REF:



6 GEAR OIL PUMP CONNECTION AT DRUM
P-602 SCALE REF:



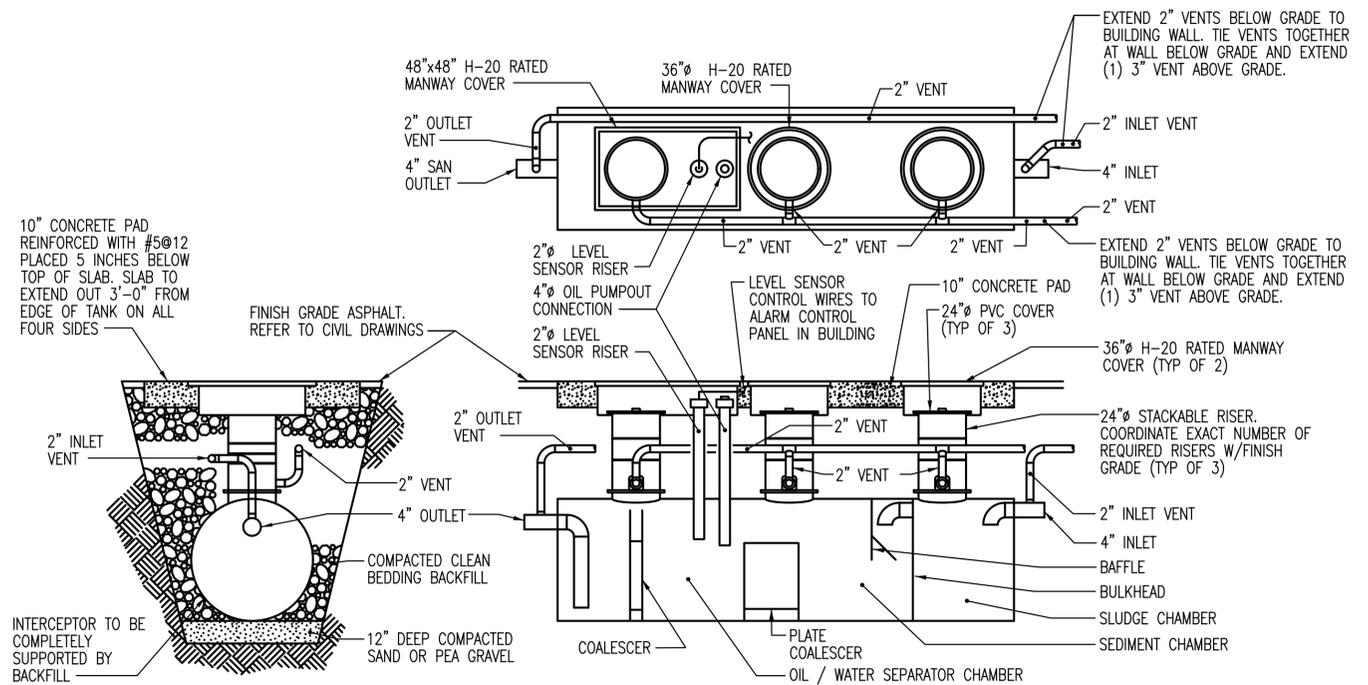
7 STATIONARY CHASSIS GREASE PUMP CONNECTION
P-602 SCALE REF:



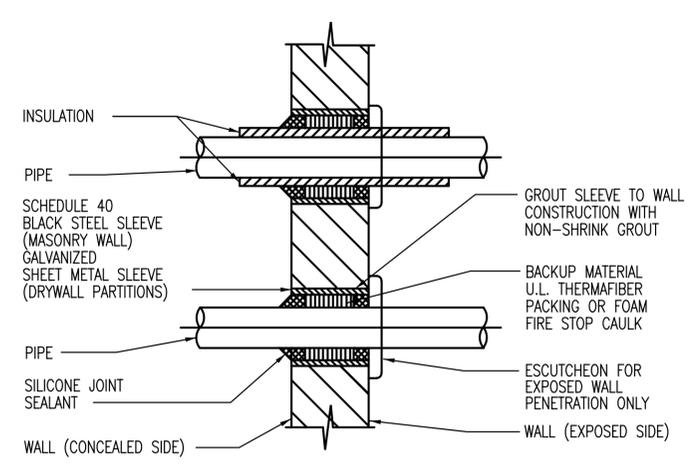
NOTE:
1. TYPICAL FOR, ENGINE OIL 2 (E02), AUTOMATIC TRANSMISSION FLUID (ATF) AND ENGINE COOLANT (EC).
2. REFER TO PLANS FOR SIZES.

8 ENGINE OIL PUMP AT STORAGE TANK
P-602 SCALE REF:

ADDENDUMS / REVISIONS

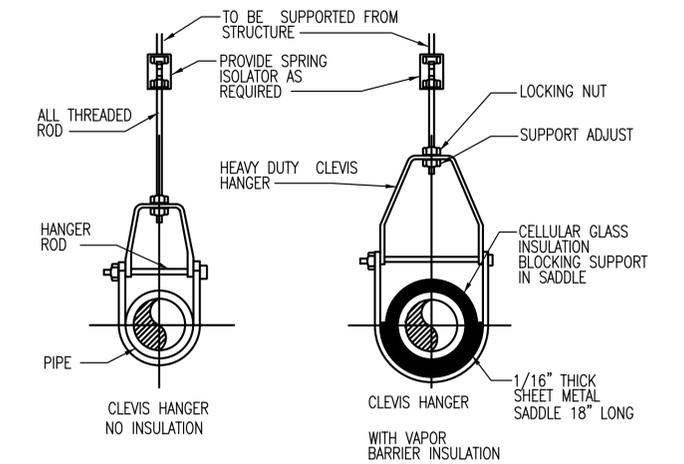


1 OIL/WATER SEPARATOR (1,000 GALLON)
P-603 SCALE REF:

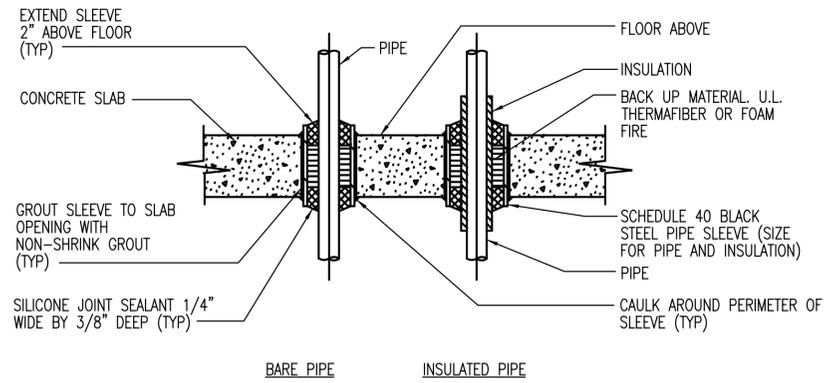


2 PIPE SLEEVE THRU WALL
P-603 SCALE REF:

- NOTES:
1. AT THE CONTRACTORS OPTION A U.L. LISTED/APPROVED FIRE STOP PIPE SLEEVE ASSEMBLY MAY BE SUBMITTED FOR APPROVAL.
 2. FOR EXISTING POURED CONCRETE WALLS, CORE DRILLED OPENINGS DO NOT REQUIRE PIPE SLEEVES.

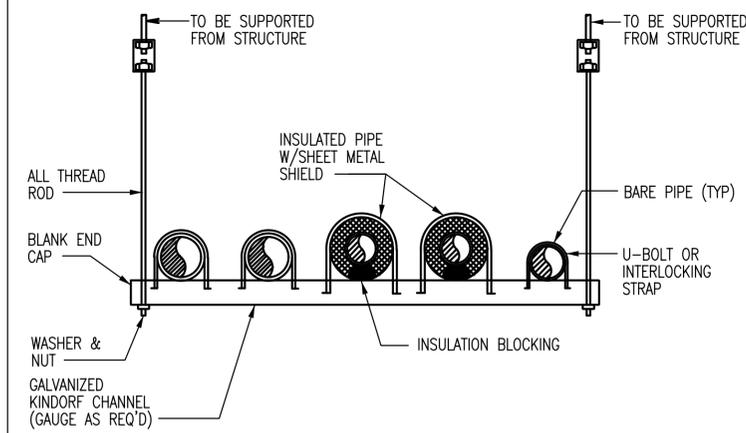


3 TYPICAL PIPE HANGER SUPPORTS
P-603 SCALE REF:



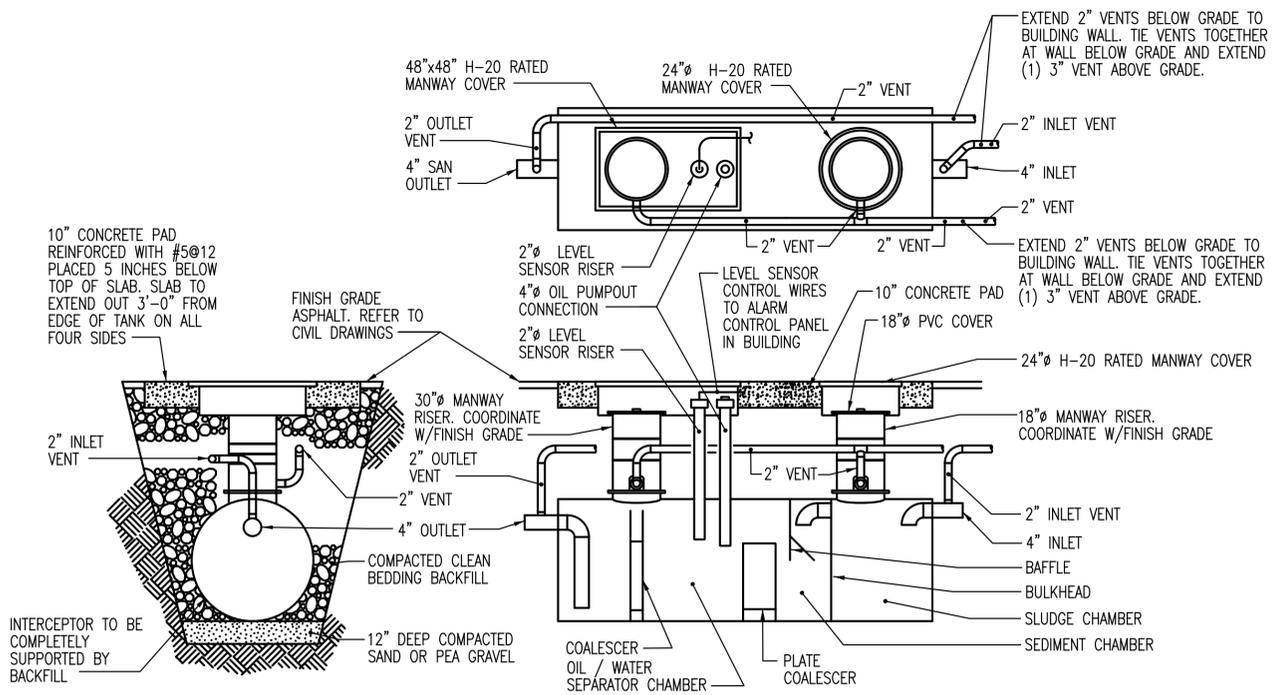
4 PIPE SLEEVE THRU FLOOR
P-603 SCALE REF:

- NOTES:
1. AT THE CONTRACTORS' OPTION A U.L. LISTED/APPROVED FIRE STOP PIPE SLEEVE ASSEMBLY MAY BE SUBMITTED FOR APPROVAL.



5 TRAPEZE PIPE SUPPORT
P-603 SCALE REF:

- NOTES:
1. ALL PIPING SUPPORT SYSTEM COMPONENTS SHALL HAVE A NON-CORROSIVE METAL FINISH.
 2. ALL COPPER PIPING SHALL BE PROTECTED FROM CONTACT W/ DISSIMILAR METALS.

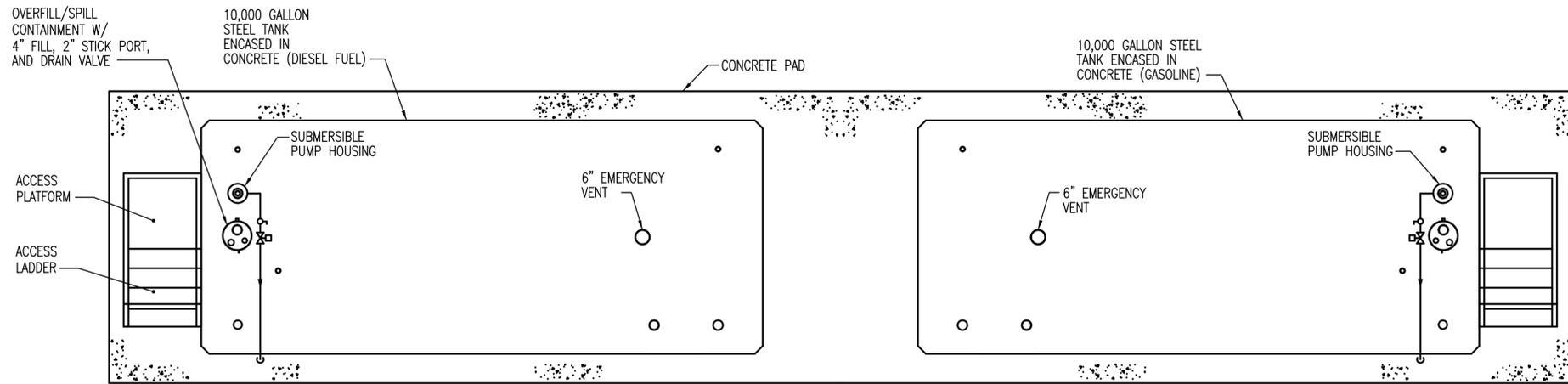


6 OIL/WATER SEPARATOR (350 GALLON)
P-603 SCALE REF:

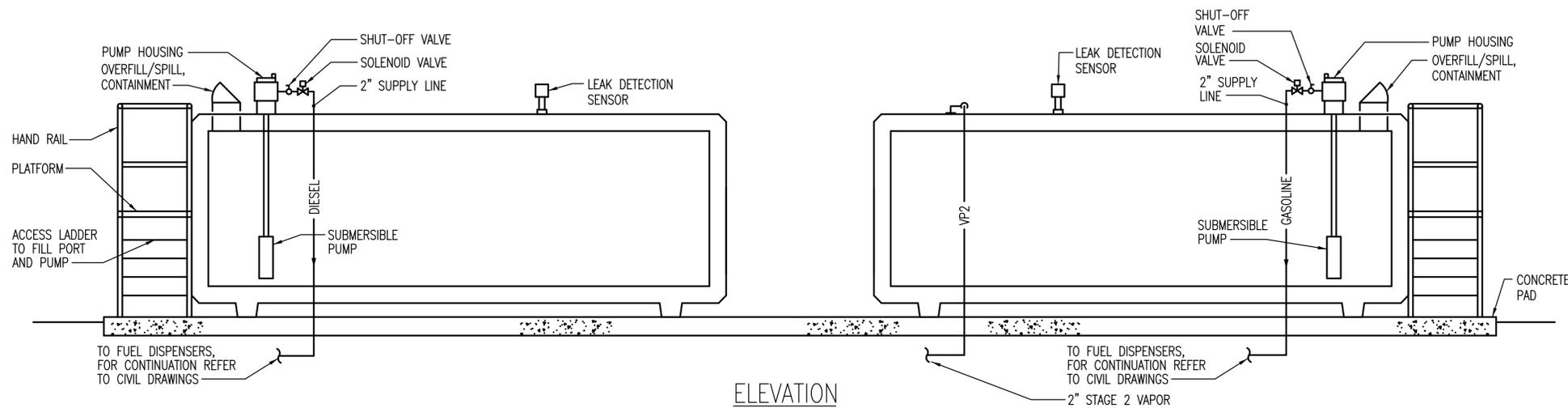
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ADDENDUMS / REVISIONS	

CONTRACT T200612502	BRIDGE NO.
COUNTY SUSSEX	DESIGNED BY: TTM/ALM
	CHECKED BY: CEH



PLAN

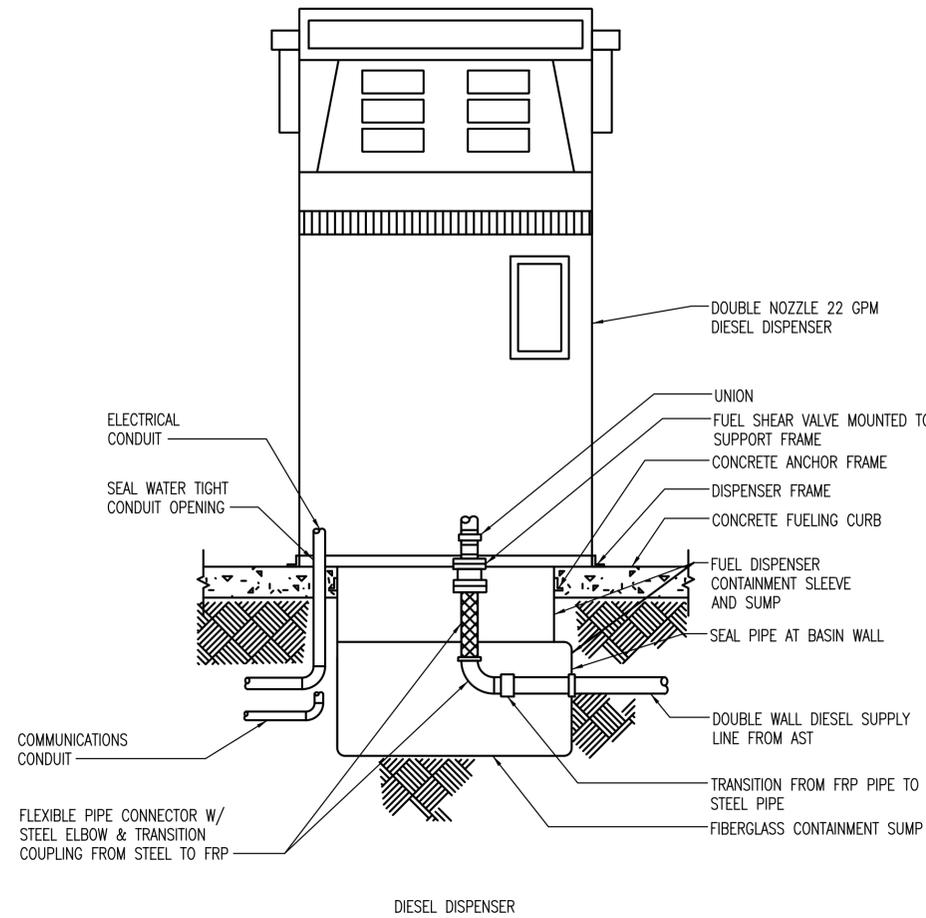


ELEVATION

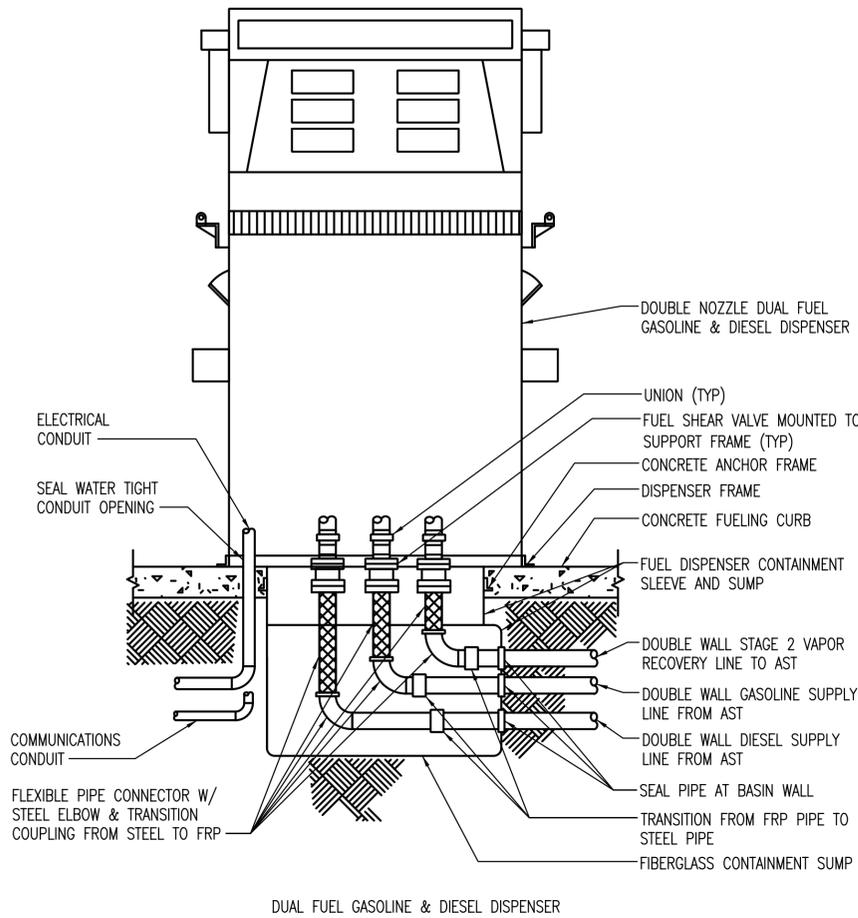
NOTE:
FOR EXACT LOCATION OF STORAGE TANKS, REFER TO DRAWING CIVIL DRAWINGS.

1 ABOVE GROUND FUEL STORAGE TANKS (DIESEL & GASOLINE)
P-604 SCALE REF.

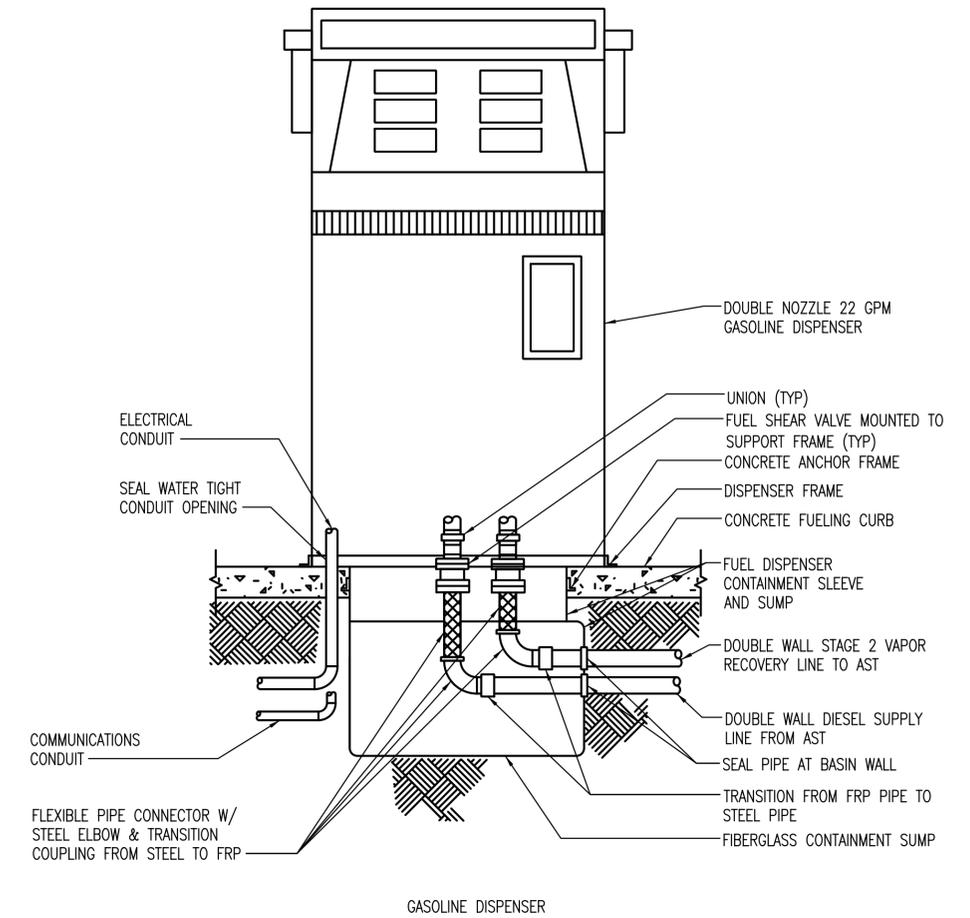
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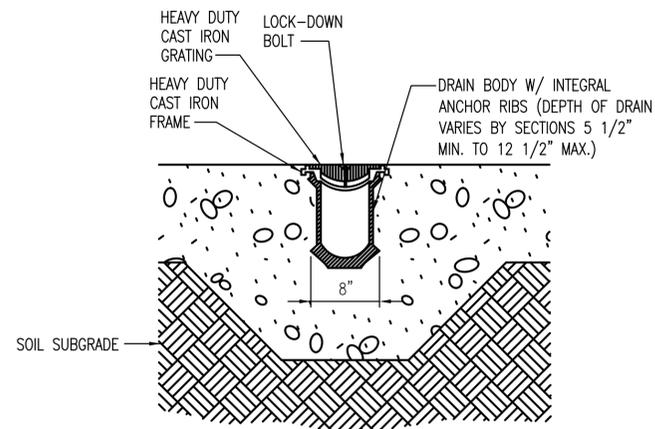
1 DIESEL DISPENSER
P-605 SCALE REF:



2 DUAL FUEL GASOLINE & DIESEL DISPENSER
P-605 SCALE REF:



3 GASOLINE SATELLITE DISPENSER
P-605 SCALE REF:



4 MODULAR TRENCH DRAIN
P-605 SCALE REF:

ADDENDUMS / REVISIONS

DELAWARE TRANSIT CORPORATION
LEWES PARK AND RIDE
AND MAINTENANCE FACILITY

CONTRACT	BRIDGE NO.
T200612502	
COUNTY	DESIGNED BY: TTM/ALM
SUSSEX	CHECKED BY: CEH

PLUMBING
DETAILS

P-605
SHEET NO.
147
TOTAL SHTS.
185

PUMP SCHEDULE									
UNIT ID	SERVICE	LOCATION	TYPE	CAPACITY		ELECTRICAL DATA			BASIS OF DESIGN
				GPM	HEAD (FT)	HP	RPM	VOLTS/PH	
HWCP-1	DOMESTIC HOT WATER	MECHANICAL 118	INLINE	3	4	1/8	1725	115/1	TACO 110
HWCP-2	DOMESTIC HOT WATER	MECHANICAL 204	INLINE	3	8	1/8	1725	115/1	TACO 111
DWBP-1	DOMESTIC COLD WATER	MECHANICAL 204	END-SUCTION	100	60	5	1725	480/3	NOTE 1

NOTE:
1. PROVIDE TIGERFLOW TIGER CUB ES-3000-MB, TYPE III BOOSTER PUMP PACKAGE W/ AMTROL MODEL ST210 HYDROPNEUMATIC TANK.

DOMESTIC HOT WATER MIXING VALVE SCHEDULE							
UNIT ID	LOCATION	SERVICE	MIN. GPM	MAX. GPM	HOT WATER TEMP.	MAX. PRESSURE DROP (PSI)	BASIS OF DESIGN
MV-1	WASH BAY-218 & LUBE/COMPRESSOR-215	P-10	20	20	85	20	BRADLEY S19-2200

EXPANSION TANK SCHEDULE					
UNIT ID	SERVICE	TYPE	ACCEPTANCE VOLUME (GALLONS)	PRESSURE	
				PRECHARGE (PSI)	MAX. OPER.
ET-1	DOMESTIC HOT WATER HEATER	BLADDER	11	55	150
ET-2	DOMESTIC HOT WATER HEATER	BLADDER	11	55	150

AIR COMPRESSOR SCHEDULE											
UNIT ID	SERVICE	TYPE	NO. OF COMPRESSORS	TANK VOLUME (GAL)	TOTAL CAPACITY (SCFM)	DISCHARGE PRESSURE (PSI)	HP EACH COMPRESSOR	RPM	VOLTS/PHASE	BASIS OF DESIGN	REMARKS
AC-1	SHOP & LUBE OIL EQUIPMENT	DUPLIX TANK MOUNTED	2	250	100	155	15	770	480/3	GARDNER DENVER-HR15DF-25	TANK MOUNTED DUPLIX

FLUIDS PUMP SCHEDULE											
UNIT ID	SERVICE	LOCATION	TYPE	CAPACITY		RATIO	SYSTEM PRESSURE (PSI)	COMPRESSED AIR		REMARKS	BASIS OF DESIGN
				GPM	LBS/MIN			SCFM	PRESSURE (PSI)		
FP-1	GEAR OIL (GO)	LUBE / COMPRESSOR ROOM	AIR PISTON PUMP	6	-	10 TO 1	320	25	100	WALL MOUNTED	BALCRANK LION 10:1 SERIES
FP-2	AUTOMATIC TRANSMISSION FLUID (ATF)	LUBE / COMPRESSOR ROOM	AIR PISTON PUMP	6	-	10 TO 1	350	25	100	TANK MOUNTED	BALCRANK LION 10:1 SERIES
FP-3	ENGINE OIL (5/20)	LUBE / COMPRESSOR ROOM	AIR PISTON PUMP	6	-	10 TO 1	350	25	100	TANK MOUNTED	BALCRANK LION 10:1 SERIES
FP-4	ENGINE OIL (EO)	LUBE / COMPRESSOR ROOM	AIR PISTON PUMP	6	-	10 TO 1	285	20	100	TANK MOUNTED	BALCRANK LION 10:1 SERIES
FP-5	ENGINE COOLANT (EC)	LUBE / COMPRESSOR ROOM	AIR PISTON PUMP	6	-	1 TO 1	95	10	135	WALL MOUNTED	BALCRANK LION SERIES
FP-6	CHASSIS GREASE (CG)	LUBE / COMPRESSOR ROOM	AIR PISTON PUMP W/ INDUCTOR	-	8	50 TO 1	5000	72	135	TANK MOUNTED	BALCRANK LION SERIES
FP-7	WASTE COOLANT (WC)	MAIN SHOP REPAIR BAYS	AIR DIAPHRAGM PUMP	4	-	1 TO 1	40	10	50	WALL MOUNTED	BALCRANK SERIES 1120-013S
FP-8	WASTE OIL (WO)	MAIN SHOP REPAIR BAYS	AIR DIAPHRAGM PUMP	4	-	1 TO 1	60	15	100	WALL MOUNTED	BALCRANK SERIES 1120-013S
FP-9	WINDSHIELD WASHER FLUID (WWS)	LUBE / COMPRESSOR ROOM	AIR PISTON PUMP	6	-	10 TO 1	200	25	100	WALL MOUNTED	BALCRANK LION 10:1 SERIES

PLUMBING FIXTURE SCHEDULE										
UNIT ID	DESCRIPTION	CW (IN)	HW (IN)	SAN (IN)	VENT (IN)	WSFU	DFU	REMARKS	BASIS OF DESIGN	
P-1	WATER CLOSET WALL MOUNTED	1	-	4	2	10	4	MANUAL FLUSH VALVE 1.28 GPF	AMERICAN STANDARD, AFWALL	
P-1A	WATER CLOSET WALL MOUNTED BARRIER FREE	1	-	4	2	10	4	MANUAL FLUSH VALVE 1.28 GPF	AMERICAN STANDARD, AFWALL	
P-2	URINAL WALL MOUNTED	3/4	-	2	1 1/2	5	2	MANUAL FLUSH VALVE 1/8 GPF	AMERICAN STANDARD, WASHBROOK FLOWISE	
P-2A	URINAL WALL MOUNTED BARRIER FREE	3/4	-	2	1 1/2	5	2	MANUAL FLUSH VALVE 1/8 GPF	AMERICAN STANDARD, WASHBROOK FLOWISE	
P-3	LAVATORY, COUNTER MOUNTED BARRIER FREE	1/2	1/2	1 1/2	1 1/2	2	1	0.5 GPM MANUAL FAUCET	JUST, MFG	
P-4	LAVATORY, WALL MOUNTED BARRIER FREE	1/2	1/2	1 1/2	1 1/2	2	1	0.5 GPM MANUAL FAUCET	AMERICAN STANDARD, LUCERNE	
P-5	MOP SINK	3/4	3/4	3	1 1/2	3	2		FIAT, MSB SERIES	
P-6	KITCHENETTE SINK, STAINLESS STEEL, COUNTER MOUNTED	1/2	1/2	2	1 1/2	2	2	SINGLE COMPARTMENT	JUST, SL SERIES	
P-7	SHOWER STALL BARRIER FREE WITH DETACHABLE HEAD	1/2	1/2	2	1 1/2	4	2		CRANE	
P-8	CLOTHES WASHING MACHINE WALL OUTLET BOX	1/2	1/2	1 1/2	1 1/2	1.4	2		GUY GRAY	
P-9	ELECTRIC WATER COOLER BARRIER FREE	1/2	-	1 1/2	1 1/2	0.5	0.5	BI-LEVEL	HALSEY TAYLOR, OVL-II SERIES	
P-9A	ELECTRIC WATER COOLER BARRIER FREE	1/2	-	1 1/2	1 1/2	0.5	0.5	BI-LEVEL	HALSEY TAYLOR	
P-10	COMBINATION EMERGENCY SHOWER AND EYE WASH	-	-	1 1/2	1 1/2	-	2	NOTE 1	BRADLEY	
P-11	LAVATORY, STAINLESS STEEL, WALL MOUNTED BARRIER FREE	1/2	1/2	1 1/2	1 1/2	2	1	0.5 GPM MANUAL FAUCET	JUST, MFG	

NOTES:
1. PROVIDE 1-1/4" TEPID WATER SUPPLY FROM MIXING VALVE MV-1.

DRAIN SCHEDULE						
UNIT ID	DESCRIPTION	SAN (IN)	CD (IN)	SW (IN)	VENT (IN)	REMARKS
FD-1	FLOOR DRAIN	3	-	-	1.5	NICKEL BRONZE FINISH STRAINER (TOILET ROOM AREAS)
FD-2	FLOOR DRAIN	4	-	-	2.0	CAST IRON STRAINER WITH DEEP SEAL TRAP (MECHANICAL EQUIPMENT ROOMS)
RD-1	ROOF DRAIN	-	-	4	-	CAST IRON DOME STRAINER
SRD-1	OVERFLOW ROOF DRAIN	-	-	4	-	CAST IRON DOME STRAINER
TD-1	TRENCH DRAIN	4	-	-	2.0	CAST IRON STRAINER, 8" W X 96" L (MAINTENANCE BAYS AND FUEL ISLAND)

FLUIDS STORAGE TANK SCHEDULE						
UNIT ID	SERVICE	LOCATION	CONSTRUCTION	SIZE (GALLONS)	TYPE	BASIS OF DESIGN
FST-1	AUTOMATIC TRANSMISSION FLUID (ATF)	LUBE / COMPRESSOR ROOM	DOUBLE WALL STEEL	500	CUBE-DOUBLE WALL	CONTAINMENT SOLUTION INC.
FST-2	ENGINE OIL (EO)	LUBE / COMPRESSOR ROOM	DOUBLE WALL STEEL	500	CUBE-DOUBLE WALL	CONTAINMENT SOLUTION INC.
FST-3	ENGINE OIL (5/20)	LUBE / COMPRESSOR ROOM	DOUBLE WALL STEEL	280	CUBE-DOUBLE WALL	CONTAINMENT SOLUTION INC.
FST-4	WASTE COOLANT (WC)	LUBE / COMPRESSOR ROOM	POLYETHYLENE	200	VERTICAL-SINGLE WALL	SIERRA TANKS
FST-5	WASTE OIL (WO)	LUBE / COMPRESSOR ROOM	DOUBLE WALL STEEL	500	CUBE-DOUBLE WALL	CONTAINMENT SOLUTION INC.

DOMESTIC WATER HEATER SCHEDULE									
UNIT ID	LOCATION	INPUT			RECOVERY @ 70 RISE	RECOVERY @ 45 RISE	ELECTRICAL DATA		BASIS OF DESIGN
		FUEL SOURCE	CAPACITY	UNITS			FLA	VOLTS/PH	
DWH-1	MECHANICAL - 118	NATURAL GAS	380	CFH	9.0 GPM		0.73	120/1	PROVIDE (2) TAKAGI T-K4-IN UNITS MANIFOLDED TOGETHER
DWH-2	MECHANICAL - 204	NATURAL GAS	760	CFH		20 GPM	1.48	120/1	PROVIDE (2) TAKAGI T-M50 UNITS MANIFOLDED TOGETHER

NOTES:
1. CAPACITY AND RECOVERY INDICATED IS THE TOTAL REQUIRED DEMAND WITH THE WATER HEATERS MANIFOLDED TOGETHER.

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ADDENDUMS / REVISIONS	

**DELAWARE TRANSIT CORPORATION
LEWES PARK AND RIDE
AND MAINTENANCE FACILITY**

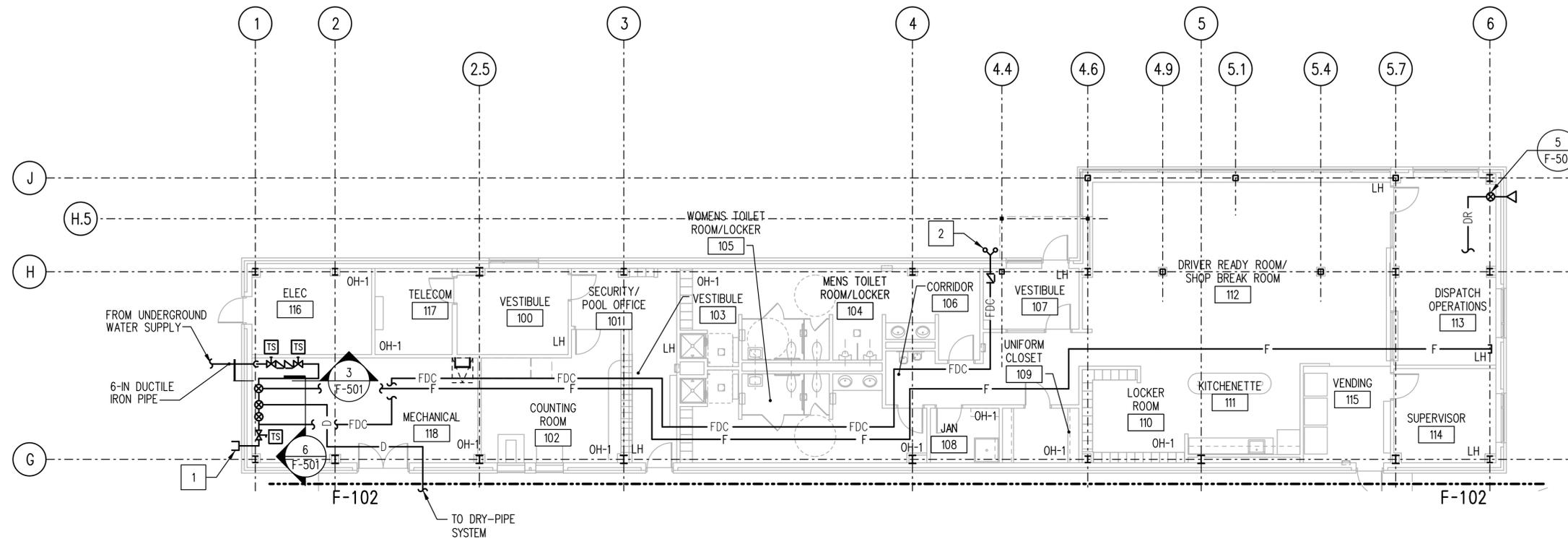
CONTRACT T200612502	BRIDGE NO.
COUNTY SUSSEX	DESIGNED BY: TTM/ALM
	CHECKED BY: CEH

**PLUMBING
SCHEDULES**

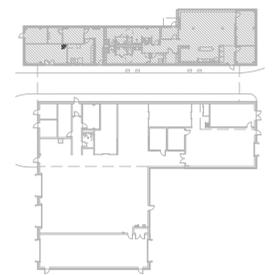
P-701
SHEET NO.
148
TOTAL SHTS.
185

CONSTRUCTION NOTES:

- 1 PROVIDE DRIP DRAIN TO EXTERIOR FROM BACKFLOW PREVENTER TEST HEADER.
- 2 PROVIDE DRIP DRAIN ON EXTERIOR FIRE DEPARTMENT CONNECTION.



1 FLOOR PLAN NORTH BUILDING - FIRE PROTECTION
 F-101 SCALE: 1/8" = 1'-0"

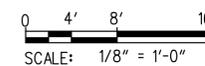


KEY PLAN
 SCALE: N.T.S.

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ADDENDUMS / REVISIONS	



DELAWARE TRANSIT CORPORATION
LEWES PARK AND RIDE
AND MAINTENANCE FACILITY

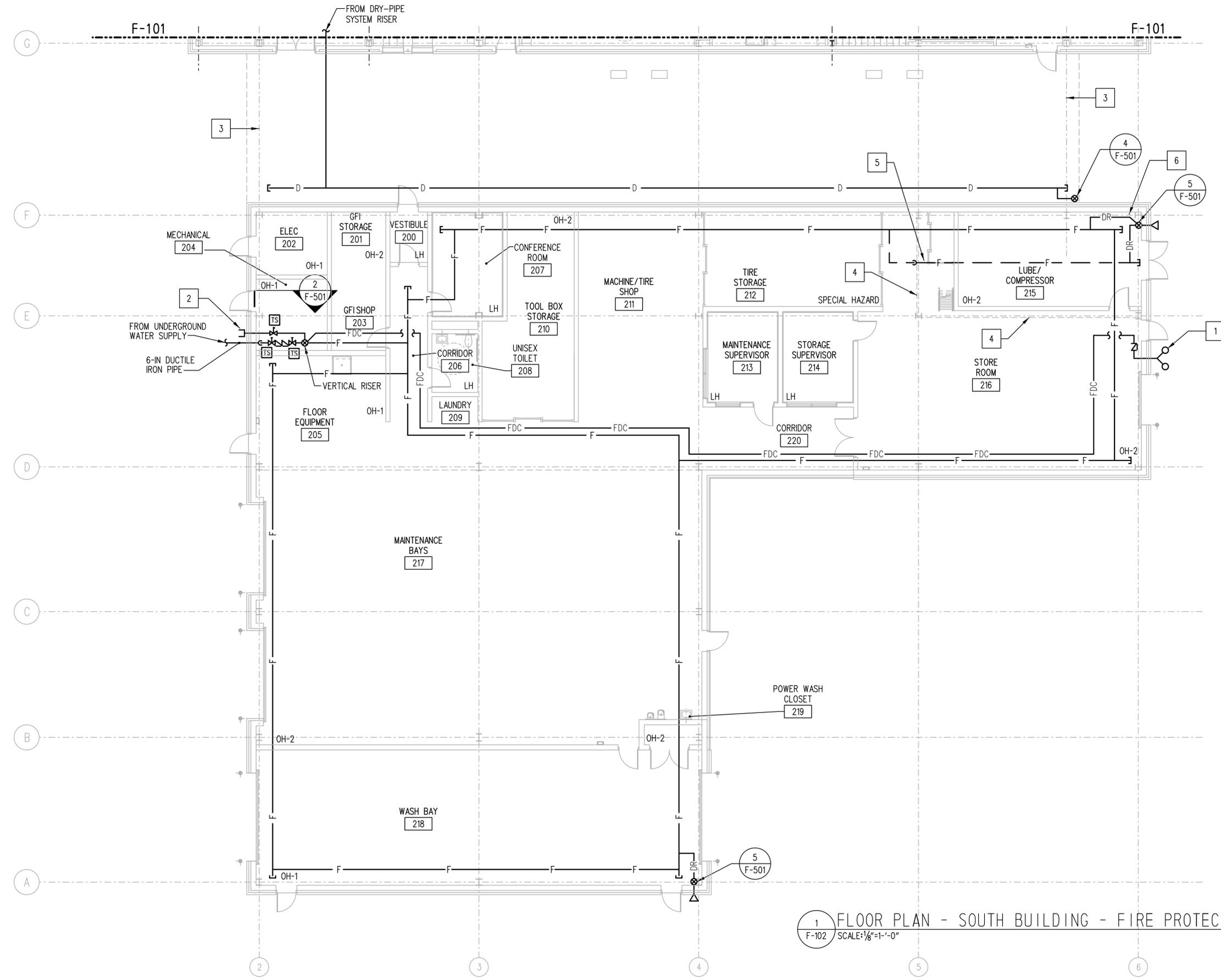
CONTRACT T200612502	BRIDGE NO.
COUNTY SUSSEX	DESIGNED BY: DLK
	CHECKED BY: TML

FLOOR PLAN
NORTH BUILDING
FIRE PROTECTION

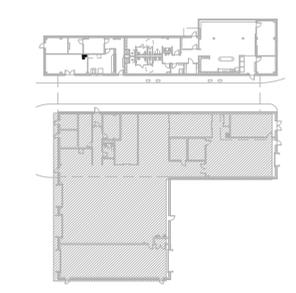
F-101
SHEET NO. 150
TOTAL SHTS. 185

CONSTRUCTION NOTES:

- 1 PROVIDE DRIP DRAIN TO EXTERIOR FROM FIRE DEPARTMENT CONNECTION.
- 2 PROVIDE DRIP DRAIN TO EXTERIOR FROM BACKFLOW PREVENTER TEST HEADER.
- 3 EXTENTS OF COVERED OUTDOOR BUS LANE. PROVIDE DRY-PIPE SPRINKLER SYSTEM UNDER CANOPY.
- 4 EDGE OF MEZZANINE. PROVIDE FIRE SPRINKLER PROTECTION BOTH ABOVE AND BELOW MEZZANINE.
- 5 PROVIDE FIRE PROTECTION UNDER MEZZANINE.
- 6 COMBINE DRAINS FROM BOTH LEVEL INTO COMMON INSPECTOR'S TEST DRAIN CONNECTION TO EXTERIOR.



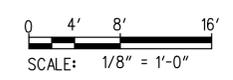
1 FLOOR PLAN - SOUTH BUILDING - FIRE PROTECTION
 F-102 SCALE: 1/8" = 1'-0"



KEY PLAN
 SCALE: N.T.S.

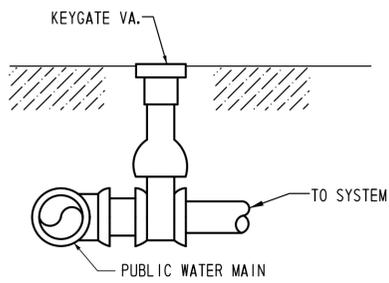
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ADDENDUMS / REVISIONS	

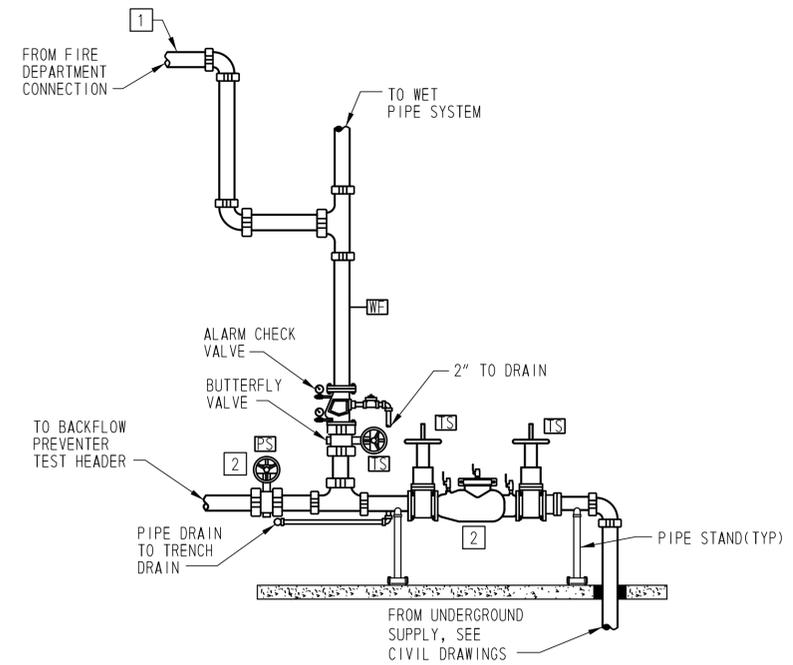


CONTRACT T200612502	BRIDGE NO.
COUNTY SUSSEX	DESIGNED BY: DLK
	CHECKED BY: TML

F-102
SHEET NO. 151
TOTAL SHTS. 185

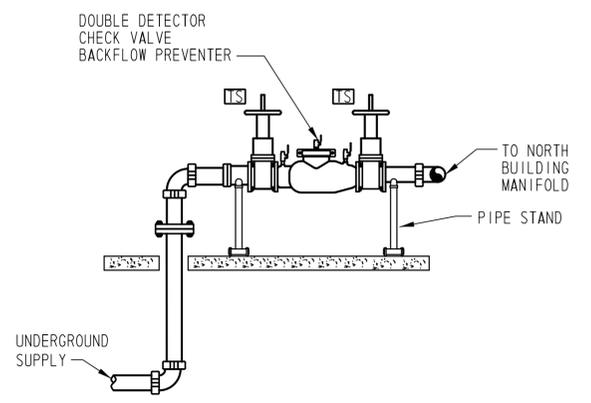


1 TYP. UNDERGROUND FIRE PROTECTION SERVICE
F-501 SCALE: NONE

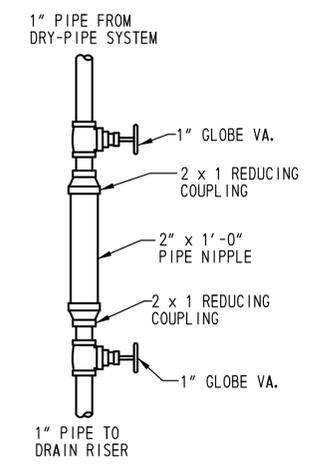


NOTES
 1 PROVIDE CHECK VALVE IN FIRE DEPARTMENT CONNECTION LINE.
 2 BACKFLOW PREVENTER TEST HEADER CONTROL VALVE SHALL BE SUPERVISED NORMALLY CLOSED.

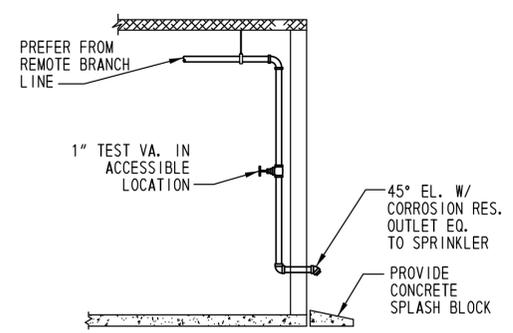
2 SOUTH BUILDING SPRINKLER SYSTEM ENTRANCE RISER
F-501 SCALE: NONE



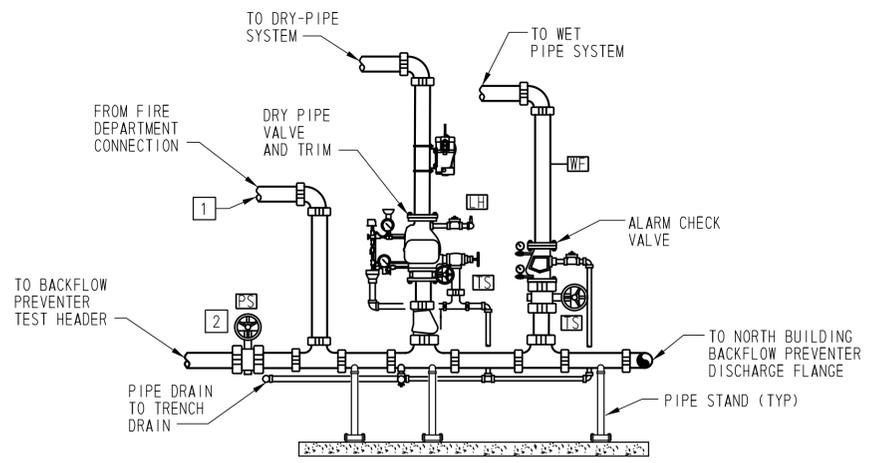
3 NORTH BUILDING SPRINKLER SYSTEM ENTRANCE RISER
F-501 SCALE: NONE



4 'DRUM DRIP' ASSEMBLY DRY SYSTEM AUXILIARY DRAIN
F-501 SCALE: NONE

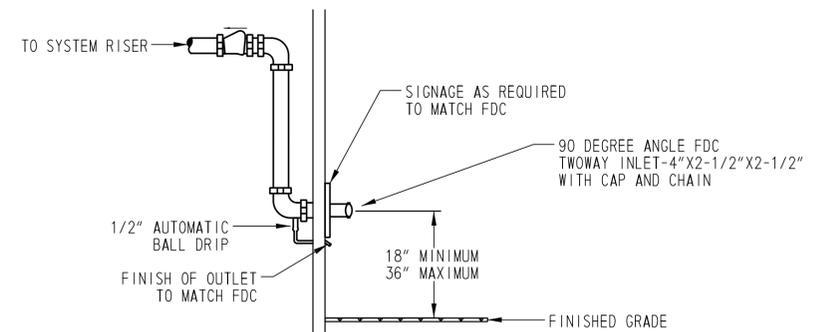


5 WET PIPE SYSTEM TEST CONNECTION
F-501 SCALE: NONE



NOTES
 1 PROVIDE CHECK VALVE IN FIRE DEPARTMENT CONNECTION LINE.
 2 BACKFLOW PREVENTER TEST HEADER CONTROL VALVE SHALL BE SUPERVISED NORMALLY CLOSED.

6 NORTH BUILDING SPRINKLER SYSTEM MANIFOLD
F-501 SCALE: NONE



7 FIRE DEPARTMENT CONNECTION
F-501 SCALE: NONE

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ADDENDUMS / REVISIONS	

CONTRACT T200612502	BRIDGE NO.
COUNTY SUSSEX	DESIGNED BY: DLK
	CHECKED BY: TML

F-501
SHEET NO. 152
TOTAL SHTS. 185

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
DACT	DIGITAL ALARM COMMUNICATOR TRANSMITTER
DEG F	DEGREES FARENHEIT
FAA	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FACP BC	FIRE ALARM CONTROL PANEL BATTERY CABINET
FARP	FIRE ALARM RELEASING PANEL
FATC	FIRE ALARM TERMINAL CABINET
FDC	FIRE DEPARTMENT CONNECTION
FM	FM GLOBAL
FT	FEET
GPM	GALLONS PER MINUTE
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
IDC	INITIATING DEVICE CIRCUIT
IN	INCHES
LED	LIGHT EMITTING DIODE
LH	LIGHT HAZARD
NAC	NOTIFICATION APPLIANCE CIRCUIT
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
OH-1	ORDINARY HAZARD, GROUP 1
OH-2	ORDINARY HAZARD, GROUP 2
OS&Y	OUTSIDE SCREW AND YOKE
PIV	POST INDICATOR VALVE
PSI	POUND PER SQUARE INCH
RF	RADIO FREQUENCY
SCH	SCHEDULE
SLC	SIGNALING LINE CIRCUIT
SQ FT	SQUARE FEET
TC	TERMINAL CABINET
UFC	UNIFIED FACILITIES CRITERIA
UL	UNDERWRITER'S LABORATORIES
ZCA	ZONE CONTROL ASSEMBLY

FIRE ALARM LEGEND

	MANUAL PULL STATION
	CEILING MOUNTED SMOKE DETECTOR
	HEAT DETECTOR
	DUCT SMOKE DETECTOR (* = S, SUPPLY SIDE; * = R, RETURN SIDE)
	REMOTE LED ANNUNCIATOR SERVING DUCT SMOKE DETECTORS
	FLOW SWITCH
	PRESSURE SWITCH
	TAMPER SWITCH
	HIGH/LOW PRESSURE SWITCH
	ADDRESSABLE MODULE
	RELAY MODULE
	DUCT SMOKE DETECTOR BY-PASS KEYSWITCH
	STROBE (SUBSCRIPT INDICATES CANDELA RATING)
	FIRE ALARM HORN (SUPERSCRIPT C INDICATES CEILING MOUNTED)
	FIRE ALARM HORN (SUPERSCRIPT C INDICATES CEILING MOUNTED)
	FIRE ALARM ANNUNCIATOR PANEL
	COMBINATION FIRE ALARM
	DIGITAL ALARM COMMUNICATING TRANSMITTER
	NOTIFICATION APPLIANCE CIRCUIT POWER EXTENDER PANEL
	TERMINAL CIRCUIT
	LCD REMOTE ANNUNCIATOR
	FIRE ALARM BATTERY CHARGER

FIRE ALARM NOTES

- SCOPE OF WORK - THE SCOPE OF WORK SHALL BE TO PROVIDE A NEW FIRE ALARM SYSTEM FOR THE NEW LEWES TRANSIT CENTER IN LEWES, DELAWARE. FIRE ALARM SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF NFPA 70, THE NATIONAL ELECTRICAL CODE, 2011 EDITION, AND NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE, 2010 EDITION.
- CONTROL PANEL SHALL TRANSMIT ALL ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO OFF-SITE SUPERVISING STATION VIA DACT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING OF CONDUCTORS IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 72.
- SUPPLY SIDE DUCT SMOKE DETECTION SHALL BE INSTALLED DOWNSTREAM OF FILTERS AND BEFORE ANY TEES IN THE DUCTWORK. RETURN SIDE DUCT SMOKE DETECTION SHALL BE INSTALLED BETWEEN AIR HANDLING UNIT AND ANY RETURN TEES.
- ADD CLEAR LABEL TO ALL DEVICES DISPLAYING ADDRESS OF DEVICE.
- ALL HORNS SHALL BE TAPPED TO PROVIDE A MINIMUM OF 15 DBA ABOVE AVERAGE AMBIENT SOUND LEVEL.
- WALL MOUNTED STROBES AND HORN/STROBES SHALL BE INSTALLED NOT LESS THAN 6'-6" AND NOT MORE THAN 8'-0" FROM THE BOTTOM OF THE UNIT TO THE FINISHED FLOOR.
- ALL STROBE CIRCUITS SHALL BE WIRED TO FLASH IN SYNCHRONIZATION IN LINE OF SIGHT. PROVIDE SYNCHRONIZATION MODULES FOR EACH NOTIFICATION APPLIANCE CIRCUIT BOOSTER PANEL AS NEEDED.
- ALL FIRE ALARM CABLING SHALL BE INSTALLED IN CONDUIT. CONTRACTOR SHALL DETERMINE SIZES OF CONDUIT THROUGH CALCULATIONS.
- ALL FIRE RATED ASSEMBLIES PENETRATED SHALL BE SEALED WITH AN APPROPRIATE UNDERWRITER'S LABORATORIES, INC. LISTED FIRE-RESISTIVE THROUGH-PENETRATION SYSTEM.
- THE MAXIMUM LENGTH OF FLEXIBLE CONDUIT SHALL BE 5 FT.
- INSTALLATION AND TERMINATION OF ALL CABLING AND WIRE SHALL CONFORM TO MANUFACTURER'S INSTRUCTIONS AND SPECIFICATIONS.
- THE FOLLOWING WIRING STYLES SHALL BE FOLLOWED:
SIGNALING LINE CIRCUITS: CLASS B
INITIATING DEVICE CIRCUITS: CLASS B
NOTIFICATION APPLIANCE CIRCUITS: CLASS B
- ALL FIRE ALARM WORK SHALL BE INSPECTED AND INSPECTED BY STATE OF DELAWARE FIRE PROTECTION ENGINEER FOR COMPLIANCE WITH NFPA 70, NFPA 72, AND THE CONTRACT DOCUMENTS. ALL SUPERVISORY AND TROUBLE ALERTS SHALL BE CLEARED BEFORE SYSTEM IS ACCEPTED.
- ALL SURFACE MOUNTED PULL STATIONS, STROBES, AND HORN/STROBES SHALL BE MOUNTED IN THE MANUFACTURER'S BACK BOXES.
- ALL PULL STATIONS SHALL BE MOUNTED AT HEIGHT BETWEEN 3-1/2 FT AND 4 -1/2 FT AFF.
- ALL PULL STATIONS SHALL BE LOCATED A MAXIMUM DISTANCE OF 5 FT FROM ASSOCIATED EXIT.
- SMOKE DETECTORS SHALL NOT BE LOCATED WITHIN 3 FT OF HVAC DIFFUSERS.

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ADDENDUMS / REVISIONS	

DELAWARE TRANSIT CORPORATION
LEWES PARK AND RIDE
AND MAINTENANCE FACILITY

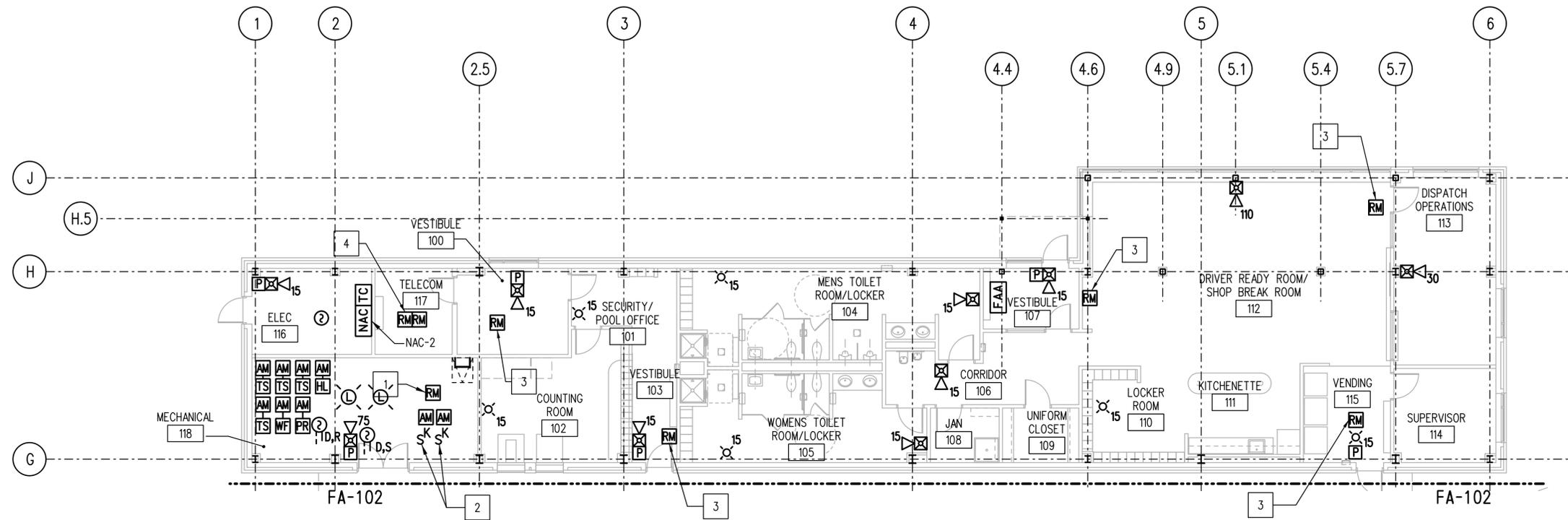
CONTRACT	BRIDGE NO.
T200612502	
COUNTY	DESIGNED BY: DLK
SUSSEX	CHECKED BY: TML

FIRE ALARM LEGEND, NOTES
AND ABBREVIATIONS

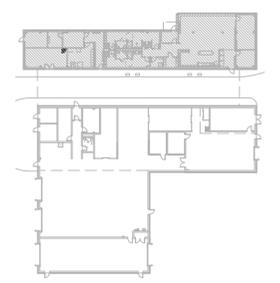
FA-001
SHEET NO.
153
TOTAL SHTS.
185

CONSTRUCTION NOTES:

- 1 RELAY MODULE FOR AIR HANDLING UNIT SHUTDOWN. LOCATE RELAY MODULE WITHIN 3- FEET OF AIR HANDLING UNIT CONTROLLER.
- 2 PROVIDE REMOTE KEY SWITCHES FOR REMOTE TESTING OF DUCT SMOKE DETECTORS.
- 3 PROVIDE RELAY MODULE FOR ELECTRIC STRIKE RELEASE.
- 4 PROVIDE RELAY MODULE FOR OPENING OF EXTERIOR GATES.



1 FLOOR PLAN NORTH BUILDING - FIRE ALARM
 F-101 SCALE: 1/8" = 1'-0"



KEY PLAN
 SCALE: N.T.S.

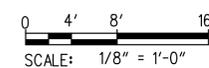
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DELAWARE
 DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

NO.	DATE	DESCRIPTION



DELAWARE TRANSIT CORPORATION
 LEWES PARK AND RIDE
 AND MAINTENANCE FACILITY

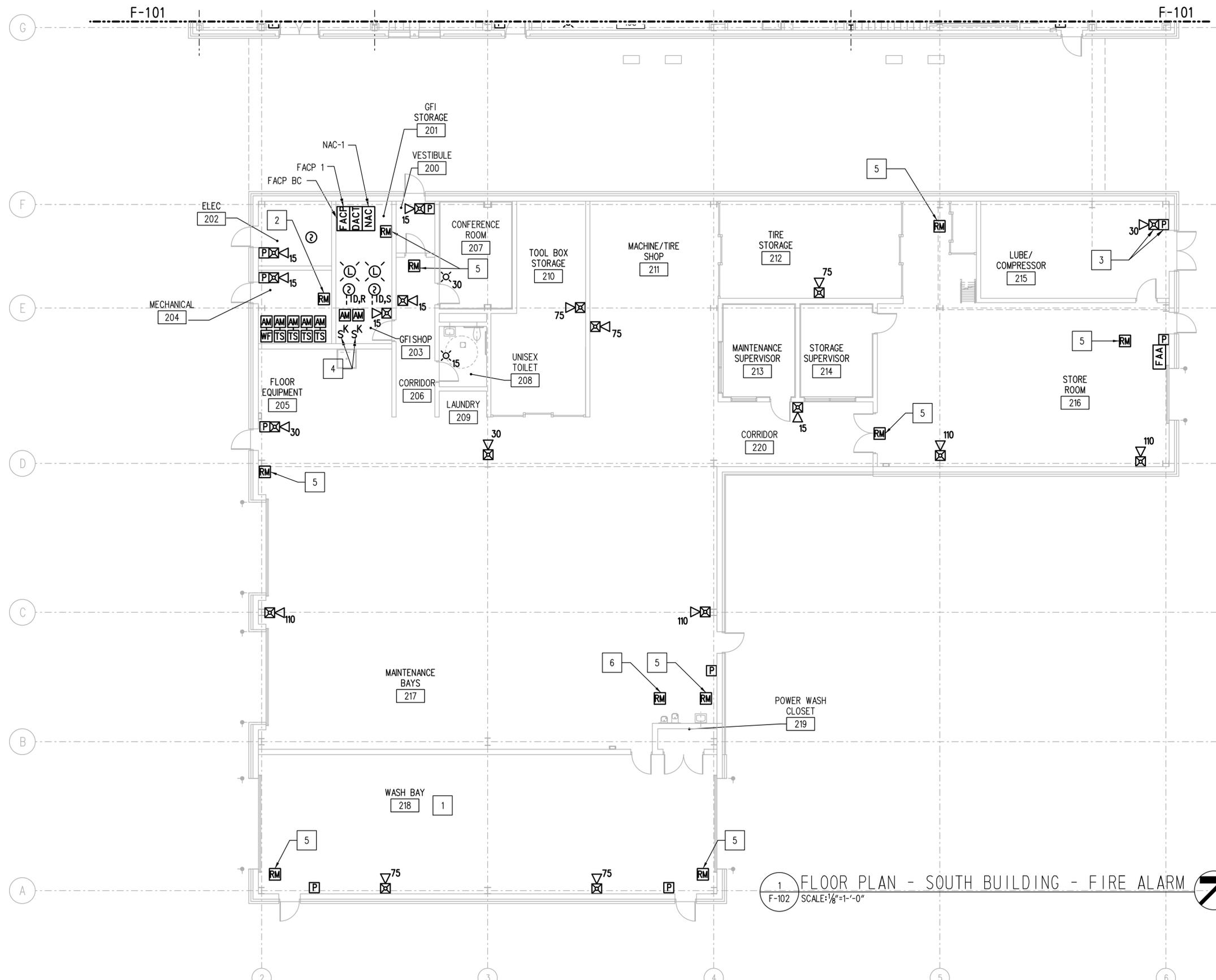
CONTRACT T200612502	BRIDGE NO.
COUNTY SUSSEX	DESIGNED BY: DLK
	CHECKED BY: TML

FLOOR PLAN
 NORTH BUILDING
 FIRE ALARM

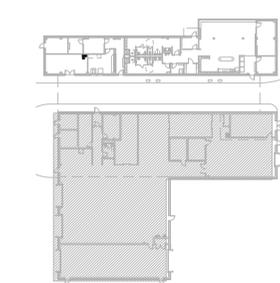
FA-101
SHEET NO. 154
TOTAL SHTS. 185

CONSTRUCTION NOTES:

- 1 PROVIDE PLASTIC PROTECTIVE COVER OVER FIRE ALARM APPLIANCES IN WASH BAY.
- 2 RELAY MODULE FOR AIR HANDLING UNIT SHUTDOWN. LOCATE RELAY MODULE WITHIN 3-FEET OF AIR HANDLING UNIT CONTROLLER.
- 3 FIRE ALARM APPLIANCES SHALL BE LOCATED UNDER MEZZANINE.
- 4 PROVIDE REMOTE KEY SWITCHES FOR REMOTE TESTING OF DUCT SMOKE DETECTORS.
- 5 PROVIDE RELAY MODULE FOR ELECTRIC STRIKE RELEASE.
- 6 PROVIDE RELAY MODULE FOR GAS DETECTION CONTROL PANEL SUPERVISION.



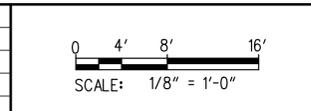
1 FLOOR PLAN - SOUTH BUILDING - FIRE ALARM
 F-102 SCALE: 1/8" = 1'-0"



KEY PLAN
 SCALE: N.T.S.

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ADDENDUMS / REVISIONS	

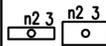


CONTRACT T200612502	BRIDGE NO.
COUNTY SUSSEX	DESIGNED BY: DLK
	CHECKED BY: TML

FA-102
SHEET NO. 155
TOTAL SHTS. 185

LEGEND

LIGHTING

-  FLUORESCENT LIGHTING FIXTURE (LOWER CASE LETTER WITH NUMBER INDICATES SWITCH OR OCCUPANCY SENSOR USED TO CONTROL FIXTURE, NUMBER INDICATES CIRCUIT)
-  FLUORESCENT INDUSTRIAL TYPE LIGHTING FIXTURE (LOWER CASE LETTER WITH NUMBER INDICATES SWITCH OR OCCUPANCY SENSOR USED TO CONTROL FIXTURE, NUMBER INDICATES CIRCUIT)
-  WALL MOUNTED LIGHTING FIXTURE (LOWER CASE LETTER WITH NUMBER INDICATES SWITCH OR OCCUPANCY SENSOR USED TO CONTROL FIXTURE, NUMBER INDICATES CIRCUIT)
-  DOWN-LIGHT LIGHTING FIXTURE (LOWER CASE LETTER WITH NUMBER INDICATES SWITCH OR OCCUPANCY SENSOR USED TO CONTROL FIXTURE, NUMBER INDICATES CIRCUIT)
-  EXIT LIGHTING FIXTURE, ARROW, INDICATES DIRECTION (NUMBER INDICATES CIRCUIT)
-  EMERGENCY BATTERY POWERED LIGHTING UNIT (NUMBER INDICATES CIRCUIT)
-  LIGHTING FIXTURE TYPE SYMBOL (SEE LIGHTING FIXTURE SCHEDULE)

SWITCHES

- S** SINGLE POLE SWITCH, 20A, 120-277V
- S₃** THREE WAY SWITCH, 20A, 120-277V
- S₄** FOUR WAY SWITCH, 20A, 120-277V
- S_{a1}** SINGLE POLE SWITCH, 20A, 120-277V, (LOWER CASE LETTER WITH NUMBER WHEN USED INDICATES FIXTURES CONTROLLED)
- S_{LV-n}** LOW VOLTAGE SWITCH, SUBSCRIPT WHEN USED INDICATES QUANTITY OF BUTTON/ZONES TO BE PROVIDED
- S_T** SINGLE POLE TIMERSWITCH, 20A, 120-277V
- S_{OC}** SWITCH WITH OCCUPANCY SENSOR, 20A, 120-277V
- C** LIGHTING CONTACTOR (X POLE) 277V
- P** PUSH BUTTON
- PC** PHOTO CELL
- MS** MOTION SENSOR
- OS₃** OCCUPANCY SENSOR. PROVIDE POWER PACK AS REQUIRED (LOWER CASE LETTER WITH NUMBER WHEN USED INDICATES FIXTURES CONTROLLED.)
- OS_{CL}** HALLWAY OCCUPANCY SENSOR. PROVIDE POWER PACK AS REQUIRED (LOWER CASE LETTER WITH NUMBER WHEN USED INDICATES FIXTURES CONTROLLED.)

RECEPTACLES

- ⊖** SINGLE RECEPTACLE, 20A, 125V AC. MOUNT 1'-6" AFF (UON)
- ⊕** TRACK LIGHTING RECEPTACLE, 15A, 125V AC. MOUNT 8'-0" AFF (UON)
- ⊖** DUPLEX CONVENIENCE RECEPT., 20A, 125V AC, MOUNT 1'-6" AFF (UON)
- ⊖_G** DUPLEX CONVENIENCE RECEPTACLE 20A, 125V AC. SUBSCRIPT "G" INDICATES GFITYPE, MOUNT 18" AFF (UON)
- ⊖₊** RECEPTACLE, SUBSCRIPT "+" INDICATES MOUNT 6" ABOVE COUNTER
- ⊖_G** DUPLEX CONVENIENCE RECEPTACLE 20A, 125V AC. SUBSCRIPT "G" INDICATES GFITYPE, MOUNT 12" ABOVE COUNTER (UON)
- ⊖₊** DOUBLE DUPLEX CONVENIENCE RECEPTACLE 20A, 125V AC. MOUNT 18" AFF (UON)
- ⊖_{SP}** SPECIAL PURPOSE RECEPTACLE 20A OR 30A OR 50A, 3P, 4W, 480V AC. MOUNT 48" AFF (UON)
- ⊖_{SP}** SPECIAL PURPOSE RECEPTACLE 20A OR 30A OR 50A, 3P, 4W, 208V AC. MOUNT 48" AFF (UON)
- C** FLUSH CEILING MOUNTED DUPLEX RECEPTACLE. 20A, 125V
- C** FLUSH CEILING MOUNTED DOUBLE DUPLEX RECEPTACLE. 20A, 125V

SAFETY SWITCHES/BREAKERS/STARTERS

- U_{60/3}** NON-FUSED DISCONNECT SWITCH, SUBSCRIPT INDICATES AMPACITY AND NUMBER OF POLES. ALL NON-FUSED DISCONNECT SWITCHES SHALL BE 3 POLE, 30AMPS UON.
- F_{15/3}** FUSED DISCONNECT SWITCH, SUBSCRIPT INDICATES FUSED SIZE AND NUMBER OF POLES. ALL FUSED DISCONNECT SWITCHES SHALL BE RATED EQUAL TO OR GREATER GREATER THAN THE FUSE INDICATED.
- 2**  MAGNETIC MOTOR STARTER, SUBSCRIPT INDICATES NEMA SIZE 2, NEMA SIZE 1 STARTER UON
- 2**  MAGNETIC MOTOR STARTER, SUBSCRIPT INDICATES NEMA SIZE 2, 60 = SWITCH SIZE AND 3 = NO. OF POLES. ALL COMBINATION STARTERS SHALL BE 30AMPS, 3 POLE WITH NEMA SIZE 1 STARTER UON
- S_M** MANUAL MOTOR STARTER SWITCH WITH OVERLOAD. PROVIDE HOA AS REQUIRED
- VFD** VARIABLE FREQUENCY DRIVE, INDIVIDUALLY MOUNTED
- SS** SOLID STATE STARTER, INDIVIDUALLY MOUNTED
- 225/200**  ENCLOSED CIRCUIT BREAKER, SIZE AS INDICATED

EQUIPMENT CONNECTIONS

- M₂** MOTOR, NUMBER INDICATES HORSEPOWER
- HU** ELECTRIC UNIT HEATER
- J**  JUNCTION BOX
- E**  EQUIPMENT CONNECTION AS NOTED
- (VAV)** VARIABLE AIR VOLUME BOX
- (MOD)** MOTOR OPERATED DAMPER
- CP** CONTROL PANEL
- FD** FUEL DISPENSER
- FMS** FUEL MANAGEMENT SYSTEM
- FTSP** FUEL TANK STATUS PANEL
- VRP** VAPOR RECOVERY PANEL

GROUNDING

-  GROUND ROD, 3/4" DIAMETER x 10'-0" LONG UON
-  AIR TERMINAL

FIRE ALARM SYSTEM

- FACP** FIRE ALARM CONTROL PANEL (FACP)
- FARP** FIRE ALARM RELEASING PANEL (FARP)
- NAC** FIRE ALARM NOTIFICATION APPLIANCE PANEL

ACCESS CONTROL/SECURITY SYSTEM (ROUGH-IN ONLY, PROVIDE BACKBOX AND RACEWAY)

- E** EMERGENCY DOOR RELEASE
- CA** CARD ACCESS TERMINAL
- DC** MAGNETIC DOOR CONTACT
- MD** MOTION DETECTOR
- ES** ELECTRIC STRIKE
- PC** PERSONAL COMPUTER
- PR** PRINTER
- VR** VIDEO RECORDER
- M** MONITOR
-  CAMERA
- SSCP** SECURITY SYSTEM CONTROL PANEL
- RE** REQUEST TO EXIT

UNDERGROUND/SITE WORK

-  EXISTING HANDHOLE/MANHOLE
 -  GROUND CONDUCTOR
 -  HANDHOLE/MANHOLE
 -  UNDERGROUND CONCRETE ENCASED DUCTBANK
 -  UNDERGROUND DIRECT BURIED DUCTBANK
 -  EXISTING DUCT BANK TO BE REMOVED
 - MH** MANHOLE
 - HH** HANDHOLE
- "A"** SPECIFIC DUCTBANK SECTION DETAIL - SECTION SHOWN DASHED DENOTES EXISTING TO BE REMOVED U.N.O.
- 1 2** NEW CABLE DESIGNATION (TYPICAL) SEE CABLE SCHEDULE
- A** DUCTBANK SECTION, LOOKING IN DIRECTION OF ARROWS
- A** SPARE DUCT (TYPICAL)
- A** HEAVY LINE INDICATES BOTTOM OF DUCTBANK
- A** EXISTING CABLE DESIGNATION (TYPICAL). DESCRIPTION PER CABLE SCHEDULE.

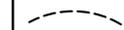
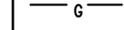
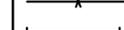
TELEPHONE/ DATA (ROUGH-IN ONLY, PROVIDE BACKBOX AND RACEWAY)

-  TELEPHONE CABINET
- W** TELEPHONE OUTLET ROUGH-IN IN WALL, 4" BOX WITH DOUBLE GAUGE RING, MOUNT 48" AFF UON. PROVIDE 1" C TO RACK IN ROOM 117 (NORTH BLDG.) AND ROOM 213 (SOUTH BLDG.).
- W** TELEPHONE/DATA OUTLET ROUGH-IN IN WALL, 4" BOX WITH DOUBLE GANG RING, MOUNT 18" AFF UON. PROVIDE 1" C TO RACK IN ROOM 117 (NORTH BLDG.) AND ROOM 213 (SOUTH BLDG.).

EMERGENCY SYSTEM

- G** GENERATOR
- ATS** AUTOMATIC TRANSFER SWITCH

WIRING

- HPA-1,3,5** BRANCH CIRCUIT HOMERUN TO PANELBOARD, HPA DENOTES TO PANEL HPA AND NUMERALS IDENTIFY CIRCUIT NUMBERS.
- OR** CONDUIT WITH WIRES, #12 AWG IN 3/4"C. UNLESS OTHERWISE NOTED, NUMBER OF CONDUCTORS AS REQUIRED. PROVIDE SEPARATE NEUTRALS FOR ALL SINGLE PHASE CIRCUITS.
-  BRANCH CIRCUIT OR FEEDER WIRING IN CONDUIT. INDICATES 2*12 CONDUCTORS AND 1*12 GROUND IN A 3/4"C (UON) FOR SINGLE PHASE BRANCH CIRCUITS AND 3*12 CONDUCTORS AND 1*12 GROUND IN A 3/4"C (UON) FOR 3 PHASE BRANCH CIRCUITS.
-  INDICATES A CONDUIT RUN CONCEALED IN CEILING, WALL, FLOOR, OR ABOVE SUSPENDED CEILING (UON)
-  EXPOSED CONDUIT RUN AS INDICATED.
-  CONDUIT TURNED UP
-  CONDUIT TURNED DOWN
-  GROUNDING CONDUCTOR (BCSD)
-  RACEWAY WITH SEALING FITTING
-  CABLE TRAY

PANELBOARDS

-  ELECTRICAL PANELBOARD
-  ELECTRICAL PANELBOARD (208Y/120V, 4W+G)
-  ELECTRICAL PANELBOARD (480Y/277V, 4W+G)

MISCELLANEOUS

- 1** SPECIFIC NOTE NUMBER
- 1** FEEDER SIZE
-  SECTION NUMBER
-  DRAWING NUMBER WHERE SHOWN
-  DETAIL NUMBER
-  DRAWING NUMBER WHERE SHOWN

ADDENDUMS / REVISIONS

**DELAWARE TRANSIT CORPORATION
LEWES PARK AND RIDE
AND MAINTENANCE FACILITY**

CONTRACT T200612502	BRIDGE NO.
COUNTY SUSSEX	DESIGNED BY: MSM/SMC
	CHECKED BY: AP

**ELECTRICAL
LEGEND**

E-001

SHEET NO.
157
TOTAL SHTS.
185

ABBREVIATIONS

A	AMPERES	G	GROUND	RC	REMOTE CONTROL
AC	ALTERNATING CURRENT	GFI	GROUND FAULT INTERRUPTER	RECD	RECEPTACLE
AF	ABOVE FINISHED FLOOR	GFCI	GOVERNMENT FURNISHED CONTRACTOR INSTALLED	RGS	REQUIRED
AFG	ABOVE FINISHED GRADE	GFGI	GOVERNMENT FURNISHED GOVERNMENT INSTALLED	RM	RIGID GALVANIZED STEEL ROOM
AHU	AIR HANDLING UNIT	GFP	GROUND FAULT PROTECTION	RMS	ROOT MEAN SQUARE
AIC	AMPERES INTERRUPTING CAPACITY, (SYM, RMS AMPS)	HID	HIGH INTENSITY DISCHARGE	RTD	RESISTANCE TEMPERATURE DETECTOR
AL	ALUMINUM	HH	HANDHOLE	RTU	REMOTE TERMINAL UNIT
ANNUN	ANNUNCIATOR	HOA	HAND OFF AUTOMATIC	RVAT	REDUCED VOLTAGE AUTOTRANSFORMER
AS	AMMETER SWITCH	HP	HORSEPOWER	RX	REMOVE EXISTING
ATC	AUTOMATIC TEMPERATURE CONTROL	HPS	HIGH PRESSURE SODIUM	SER.	SERVICE
ATS	AUTOMATIC TRANSFER SWITCH	HTR	HEATER	SF	SUPPLY FAN
AUTO	AUTOMATIC	HV	HIGH VOLTAGE	SG1-1A/P	SWGR POWER WIRE RUN NUMBER - SWGR NUMBER AND UNIT NUMBER AS INDICATED
AUX	AUXILIARY	HZ	HERTZ	SIC	SYMMETRICAL INTERRUPTING CURRENT
AWG	AMERICAN WIRE GAUGE	ICCB	INSULATED CASE CIRCUIT BREAKER	SOPN	SPACE OR POLE NUMBER
BCSD	BARE COPPER SOFT DRAWN	IDS	INTRUSION DETECTION SYSTEM	SPPS	SOUND POWERED PHONE SYSTEM
BFC	BELOW FINISHED CEILING	IMC	INTERMEDIATE METALLIC CONDUIT	SS	STAINLESS STEEL
BFI	BLOWN FUSE INDICATOR	JB	JUNCTION BOX	SS	SAFETY SWITCH
BFF	BELOW FINISHED FLOOR	KAIC	THOUSAND AMPERES INTERRUPTING CAPACITY	ST	SHUNT TRIP
BFG	BELOW FINISHED GRADE	KV	KILOVOLT	STA	STATION
BLDG	BUILDING	KVA	KILOVOLT AMPERE	STP	SHIELDED TWISTED PAIR
BKR	BREAKER	LTG	LIGHTING	STPS	SHIELDED TWISTED PAIR OVER ALL SHIELD
C	CONDUIT	LO	LOCKOUT	STR	STARTER
CB	CIRCUIT BREAKER	LP	LIGHTING AND APPLIANCE PANEL	STT	SHIELDED TWISTED TRIPLE
CC1	POWER/CONTROL/INSTRUMENTATION CABLE RUN NUMBER AS INDICATED.	LT/FMC	LIQUID TIGHT/FLEXIBLE METAL CONDUIT	S/N	SOLID NEUTRAL
CKT	CIRCUIT	LS	LIMIT SWITCH	SW	SWITCH
COMB	COMBINATION	LSH	LEVEL SWITCH HIGH	SWBD	SWITCHBOARD
CLG	CEILING	MAFC	MAKE ALL FINAL CONNECTIONS MULTI/CONDUCTOR	SWGR	SWITCHGEAR
CP	CONTROL PANEL	M/C	MAIN CIRCUIT BREAKER	SYM	SYMMETRICAL
CPT	CONTROL POWER TRANSFORMER	MCCB	MOLDED CASE CIRCUIT BREAKER	SYS	SYSTEM
CT	CURRENT TRANSFORMER	MCC	MOLDED CASE CIRCUIT BREAKER	TA	TRIP AMPS
CU	COPPER	MCC	MOLDED CASE CIRCUIT BREAKER	TC	TIME CLOCK
CX	CONNECT TO EXISTING	MCC	MOLDED CASE CIRCUIT BREAKER	TDD	TIME DELAY DE-ENERGIZED (OFF)
CCTV	CLOSED CIRCUIT TELEVISION	MCC	MOLDED CASE CIRCUIT BREAKER	TDE	TIME DELAY ENERGIZED (ON)
DAS	DATA ACQUISITION SYSTEM	MCC	MOLDED CASE CIRCUIT BREAKER	TDC	TIME DELAY CLOSE
DC	DIRECT CURRENT	MCC	MOLDED CASE CIRCUIT BREAKER	TDO	TIME DELAY OPEN
O/D	OUTDOOR	MCC	MOLDED CASE CIRCUIT BREAKER	TMH	TELEPHONE MANHOLE
DISC	DISCONNECT	MCC	MOLDED CASE CIRCUIT BREAKER	TP	TWISTED PAIR
DN	DOWN	MCC	MOLDED CASE CIRCUIT BREAKER	TPS	TWISTED PAIR SHIELDED
DP	DISTRIBUTION PANEL	MCC	MOLDED CASE CIRCUIT BREAKER	TST	THERMOSTAT SWITCH IN AUTO-TRANSFORMER
DPC	DISTRIBUTED PROCESS CONTROLLER	MCC	MOLDED CASE CIRCUIT BREAKER	TTB/TTC	TELEPHONE TERMINAL BOARD/CABINET
DWG	DRAWING	MCC	MOLDED CASE CIRCUIT BREAKER	TYP	TYPICAL
EA	EACH	MCC	MOLDED CASE CIRCUIT BREAKER	UH	UNIT HEATER
EC	EMPTY CONDUIT	MCC	MOLDED CASE CIRCUIT BREAKER	UG	UNDERGROUND
ECD	ELEMENTARY CONTROL DIAGRAM	MCC	MOLDED CASE CIRCUIT BREAKER	UON	UNLESS OTHERWISE NOTED
EF	EXHAUST FAN	MCC	MOLDED CASE CIRCUIT BREAKER	UPS	UNINTERRUPTIBLE POWER SUPPLY
EH	ELECTRIC HEATER	MCC	MOLDED CASE CIRCUIT BREAKER	V	VOLTS OR VOLTAGE
ELEV	ELEVATION	MCC	MOLDED CASE CIRCUIT BREAKER	VFD	VARIABLE FREQUENCY DRIVE
EMERG.	EMERGENCY	MCC	MOLDED CASE CIRCUIT BREAKER	W	WATTS
EMH	ELECTRIC MANHOLE	MCC	MOLDED CASE CIRCUIT BREAKER	W	WIRE
EMT	ELECTRIC METALLIC TUBING	MCC	MOLDED CASE CIRCUIT BREAKER	W/	WITH
ENCL	ENCLOSURE	MCC	MOLDED CASE CIRCUIT BREAKER	WP	WEATHERPROOF
E/O	ELECTRICALLY/OPERATED	MCC	MOLDED CASE CIRCUIT BREAKER	XFMR	TRANSFORMER
EQUIP	EQUIPMENT	MCC	MOLDED CASE CIRCUIT BREAKER	CL	CENTER LINE
ETM	ELAPSED TIME METER	MCC	MOLDED CASE CIRCUIT BREAKER	Ø	PHASE
ETR	EXISTING TO REMAIN	MCC	MOLDED CASE CIRCUIT BREAKER	⊙	AT
EUH	ELECTRIC UNIT HEATER	MCC	MOLDED CASE CIRCUIT BREAKER	*	NUMBER
EWC	ELECTRIC WATER COOLER	MCC	MOLDED CASE CIRCUIT BREAKER		
EWH	ELECTRIC WATER HEATER	MCC	MOLDED CASE CIRCUIT BREAKER		
EX,EXIST	EXISTING	MCC	MOLDED CASE CIRCUIT BREAKER		
EXP	EXPLOSION PROOF	MCC	MOLDED CASE CIRCUIT BREAKER		
F	FUSE	MCC	MOLDED CASE CIRCUIT BREAKER		
FA	FRAME AMPS	MCC	MOLDED CASE CIRCUIT BREAKER		
FA	FIRE ALARM	MCC	MOLDED CASE CIRCUIT BREAKER		
FAAP	FIRE ALARM ANNUNCIATOR PANEL	MCC	MOLDED CASE CIRCUIT BREAKER		
FACP	FIRE ALARM CONTROL PANEL	MCC	MOLDED CASE CIRCUIT BREAKER		
FBO	FURNISHED BY OTHERS UNDER SEPARATE CONTRACT	MCC	MOLDED CASE CIRCUIT BREAKER		
FC	FAN COIL UNIT	MCC	MOLDED CASE CIRCUIT BREAKER		
FDR	FEEDER	MCC	MOLDED CASE CIRCUIT BREAKER		
FL	FLOOR	MCC	MOLDED CASE CIRCUIT BREAKER		
FLEX	FLEXIBLE	MCC	MOLDED CASE CIRCUIT BREAKER		
FMC	FLEXIBLE METAL CONDUIT	MCC	MOLDED CASE CIRCUIT BREAKER		
FS	FLOW SWITCH	MCC	MOLDED CASE CIRCUIT BREAKER		
FSS	FUSED SAFETY SWITCH	MCC	MOLDED CASE CIRCUIT BREAKER		
FT	FOOT OR FEET	MCC	MOLDED CASE CIRCUIT BREAKER		
FVNR	FULL VOLTAGE NON-REVERSING	MCC	MOLDED CASE CIRCUIT BREAKER		
FVR	FULL VOLTAGE REVERSING	MCC	MOLDED CASE CIRCUIT BREAKER		

DIAGRAM LEGEND

	INCOMING LINE
	METER
	PT -POTENTIAL TRANSFORMER, NUMERAL DENOTES QUANTITY, STATIONARY TYPE WITH FUSE.
	CPT -CONTROL POWER TRANSFORMER, NUMERAL DENOTES QUANTITY, STATIONARY FUSE.
	CT -CURRENT TRANSFORMER, NUMERAL DENOTES QUANTITY.
	MOLDED CASE CIRCUIT BREAKER AUTOMATIC. 3 POLE UNLESS NOTED. 800 = FRAME SIZE, 600 = TRIP SIZE.
	TRANSFORMER, SIZE AS NOTED ON DWG
	△ PRIMARY CONNECTED DELTA
	Y SECONDARY CONNECTED WYE, NEUTRAL SOLIDLY GROUNDED.
	NORMALLY OPEN CONTACT
	NORMALLY CLOSED CONTACT
	PILOT OR INDICATING LIGHT A=AMBER, B=BLUE, G=GREEN, R=RED
	GROUND CONNECTION
	TRANSIENT VOLTAGE SURGE SUPPRESSOR
	AUTOMATIC TRANSFER SWITCH

ADDENDUMS / REVISIONS

DELAWARE TRANSIT CORPORATION
LEWES PARK AND RIDE
AND MAINTENANCE FACILITY

CONTRACT	BRIDGE NO.
T200612502	
COUNTY	DESIGNED BY: MSM/SMC
SUSSEX	CHECKED BY: AP

ELECTRICAL
ABBREVIATIONS & DIAGRAM
LEGEND

E-002
SHEET NO.
158
TOTAL SHTS.
185

GENERAL NOTES:

- SEE DRAWING E-001 THRU E-003 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
- SEE DRAWING E-501 FOR SINGLE LINE DIAGRAM.
- SEE DRAWING E-701 FOR LIGHTING FIXTURE SCHEDULE.
- SEE LIGHTING PLANS FOR CANOPY AND EXTERIOR BUILDING FIXTURES MOUNTED.
- PRIMARY AND SECONDARY SERVICE LATERALS INCLUDING THE PAD MOUNTED SERVICE TRANSFORMER AND PAD ARE PROVIDED AND INSTALLED BY DEC. CONTRACTOR SHALL COORDINATE THIS INSTALLATION WITH DEC ONCE THE SITE IS GRADED TO WITHIN 6" OF FINAL GRADE.
- DUCT BANK ROUTING SHOWN IS SUGGESTED, CONTRACTOR SHALL COORDINATE ROUTE WITH OTHER UTILITIES AND CABLE BENDING RADIUS REQUIREMENTS.
- ALL HAND HOLES SHALL BE AS SHOWN ON DETAIL 7 ON SHEET E-601, UON.
- ALL HAND HOLES SHALL BE INSTALLED IN AREAS NOT SUBJECT TO VEHICULAR TRAFFIC.
- ALL GROUND ENTRY AND EXIT LOOPS SHALL HAVE A 3/4" STUB UP TO EACH LOCAL GATE OPERATOR FOR CABLE CONNECTIONS.

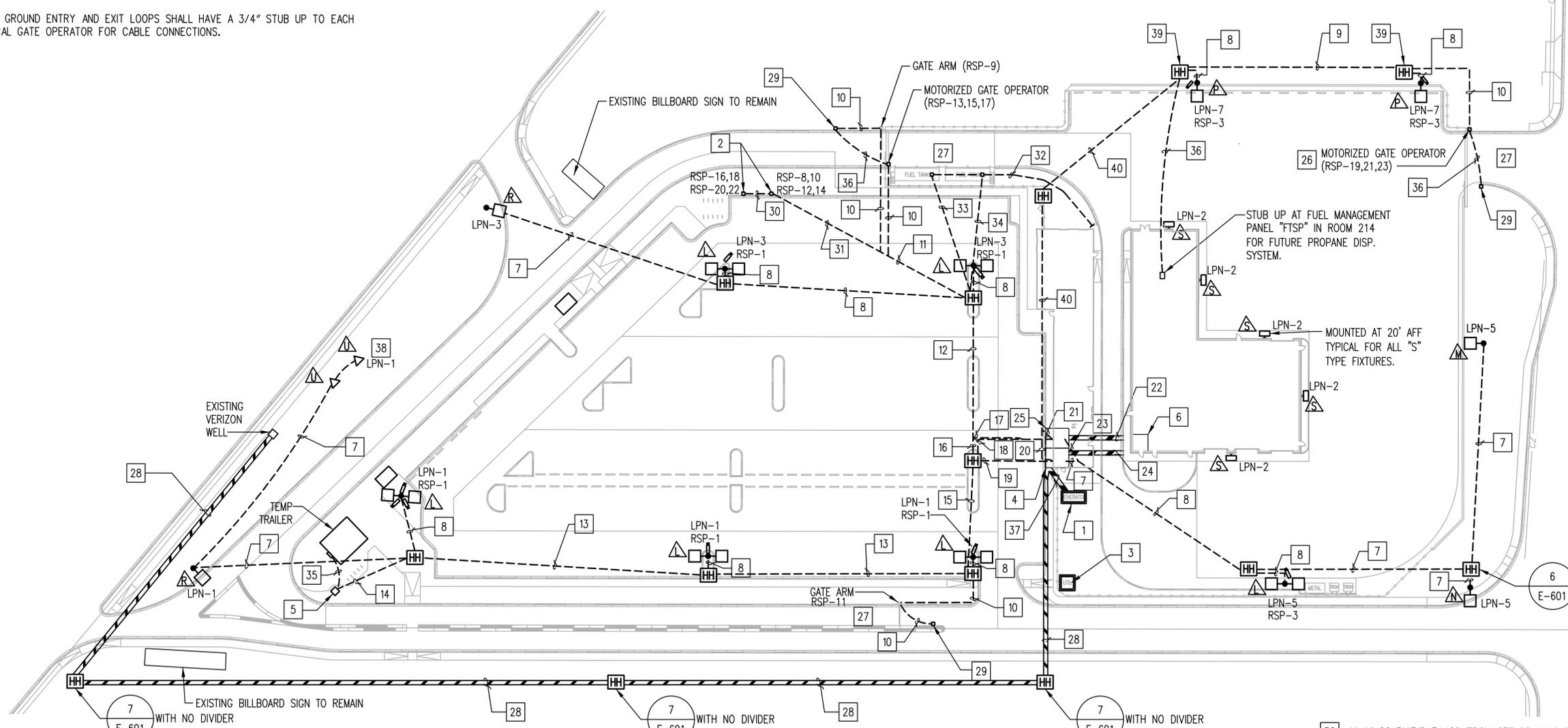
- CONCRETE PEDESTAL MOUNTED DUAL PORT LEVEL 2 CHARGING STATION: ADA COMPLIANT, BRUSHED STAINLESS STEEL CONSTRUCTION, COIL CORD CABLE MANAGEMENT WITH WEATHERPROOF DISPLAY. PROVIDE SYSTEM WITH THE FOLLOWING ETHERNET BASED CONNECTIVITY FEATURES:
 - REPORTING: MAINTAIN USAGE STATISTICS PER STATION.
 - RATE MANAGEMENT: STATION OWNERS MAY SET THE HOURLY FEE FOR CREDIT CARD BILLING.
 - ACCESS MANAGEMENT: STATIONS CAN BE CONFIGURED TO ACCESS CARDS, CREDIT CARDS OR FREE CHARGING.
 - HOURS OF OPERATION: STATION CAN BE CONFIGURED FOR TIME OF DAY OPERATION.
 PV CHARGING STATION BASIS OF DESIGN SHALL BE A MODEL #PS2000 AS MANUFACTURED BY PEP STATIONS/HUBBELL OR EQUAL.

- SEE LIGHTING PLANS FOR ADDITIONAL BUILDING AND CANOPY MOUNTED FIXTURES.
- COORDINATE EXACT STUB-UP LOCATIONS AND REQUIRED CONNECTIONS FOR EACH FUEL TANK WITH MANUFACTURERS APPROVED SHOP DRAWINGS PRIOR TO INSTALLATION OF CONDUITS.

- SEE DRAWING E-608 FOR CCTV CAMERA MOUNTING AND INSTALLATION DETAILS.
- ALL SITE LIGHTING CIRCUITS SHALL BE CONNECTED TO AND CONTROLLED WITH TIMECLOCK OVER RIDE TO INTERNAL PHOTOCELL.
- PROVIDE PULL STRING IN ALL CONDUITS FOR CONTROL, DATA AND FIBER.

SPECIFIC NOTES:

- EMERGENCY GENERATOR.
- PV CHARGING STATIONS. SEE GENERAL NOTE 10.
- PROPOSED LOCATION UTILITY TRANSFORMER EXACT LOCATION BY DEC.
- MAIN ELECTRICAL ROOM NORTH BUILDING.
- TRANSFORMER AND DISCONNECT SWITCHES FOR TEMPORARY BUILDING. PROVIDE APPROPRIATE SUPPORT STRUCTURES.
- MAIN ELECTRICAL ROOM SOUTH BUILDING.
- (1) 1" CONDUIT (POWER)
- (1) 1" CONDUIT (POWER), (1) 1" CONDUIT (FIBER)
- (2) 1" CONDUIT (POWER), (1) 1" CONDUIT (FIBER), 1" CONDUIT (CONTROL)
- (1) 1" CONDUIT (POWER), (1) 1" CONDUIT (CONTROL)
- (2) 1 1/4" CONDUIT (POWER), (2) 1" CONDUIT (POWER), 2" 1" CONDUIT (CONTROL), (1) 1" CONDUIT (DATA)
- (2) 1 1/4" CONDUIT (POWER), (5) 1" CONDUIT (POWER), (2) 1" CONDUIT (CONTROL), (1) 1" CONDUIT (FIBER), (1) 1" CONDUIT (DATA)
- (1) 2" CONDUIT (POWER), (1) 1" CONDUIT (POWER), (1) 2" CONDUIT (DATA), (1) 1" CONDUIT (FIBER)
- (1) 2" CONDUIT (POWER), (1) 2" CONDUIT (DATA), (2) 1" CONDUIT (POWER), (1) 1" CONDUIT (FIBER), (1) 1" CONDUIT (CONTROL)
- (2) 1 1/4" CONDUIT (POWER), (5) 1" CONDUIT (POWER)
- (2) 1" CONDUIT (CONTROL), (1) 1" CONDUIT (FIBER), (1) 1" CONDUIT (DATA)
- (1) 2" CONDUIT (DATA), (1) 1" CONDUIT (FIBER), (1) 1" CONDUIT (CONTROL)
- (1) 2" CONDUIT (POWER), (2) 1 1/4" CONDUIT (POWER), (7) 1" CONDUIT (POWER)
- (2) 1" CONDUIT (POWER)
- (1) 1" CONDUIT (FIBER), (1) 1" CONDUIT (CONTROL)
- (1) 4" CONDUIT (DATA), (1) 4" CONDUIT (SECURITY) CONCRETE ENCASED. STUB UP IN GF ROOM. SEE DETAIL 8/E-601.
- (1) 1" CONDUIT (FIBER)
- (1) 4" CONDUIT-FEED TO PANEL "MDPS", (1) 1" CONDUIT FIRE ALARM CONCRETE ENCASED. SEE DETAIL 8/E-601.
- TELECOM ROOM NORTH BUILDING
- PROVIDE ENTRY LOOP CONNECTED TO GATE OPERATOR. COORDINATED REQUIREMENTS WITH GATE MANUFACTURER WITH 1" CONDUIT STUB UP TO GATE AND OR ARM OPERATOR.
- PROVIDE EXIT LOOP CONNECTED TO GATE OPERATOR. COORDINATED REQUIREMENTS WITH GATE MANUFACTURER WITH 1" CONDUIT STUB UP TO GATE AND OR ARM OPERATOR.
- (2) 4"C WITH PULL STRING FOR VOICE/DATA UTILITY SERVICE. COORDINATE SERVICE REQUIREMENTS WITH DELDOT AND VERIZON. SEE DETAIL 4/E-601.
- GATE, READER ACCESS CONTROL. SEE DRAWING E-609 FOR INSTALLATION DETAILS.
- (1) 1 1/4" CONDUIT (POWER), (1) 1" CONDUIT (DATA).
- (2) 1 1/4" CONDUIT (POWER), (2) 1" CONDUIT (DATA).

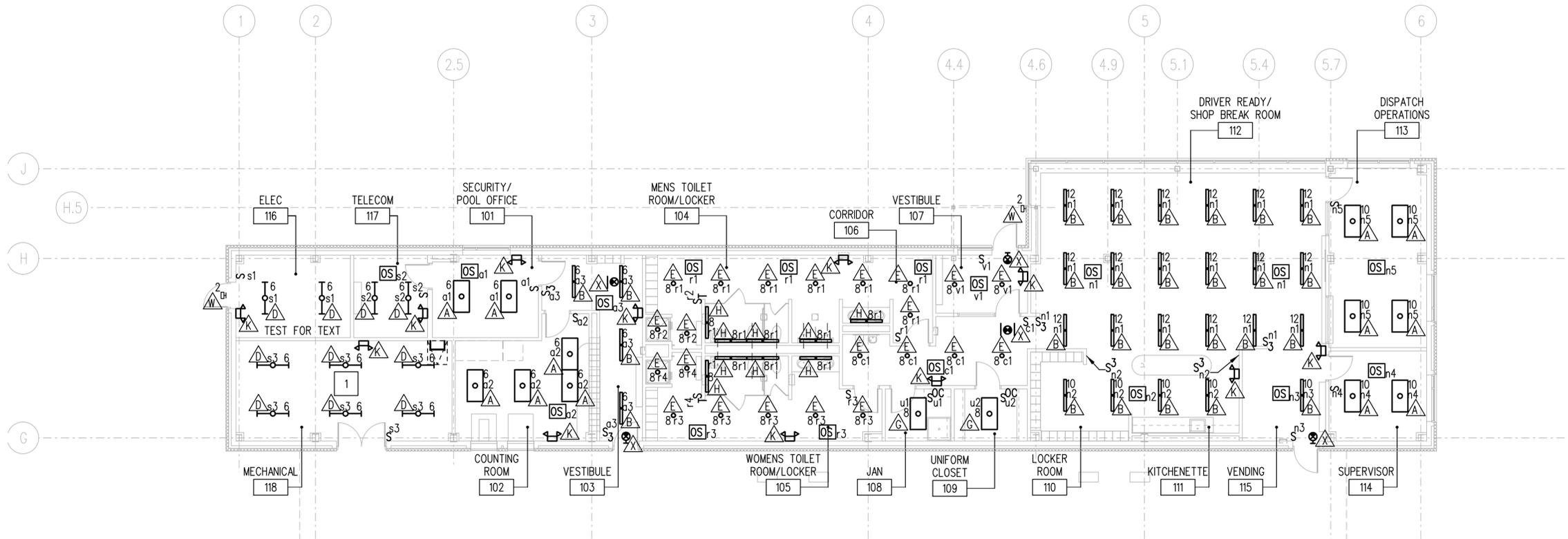


GENERAL NOTES:

1. SEE DRAWING E-001 THRU E-003 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. SEE DRAWING E-701 FOR LIGHTING FIXTURE SCHEDULE.
3. ALL CIRCUIT NUMBERS SHOWN IN NORTH BUILDING ARE CONNECTED TO PANEL LPN, UON.
4. ALL EXIT AND EMERGENCY LIGHTING SHALL BE CONNECTED TO CIRCUIT LPN-9 AND UNSWITCHED.
5. SEE DRAWING E-702 THRU E-705 FOR PANELBOARD SCHEDULES.
6. SEE DRAWING E-602 FOR TYPICAL WIRING DIAGRAM FOR LIGHTING CONTROLS.

SPECIFIC NOTES:

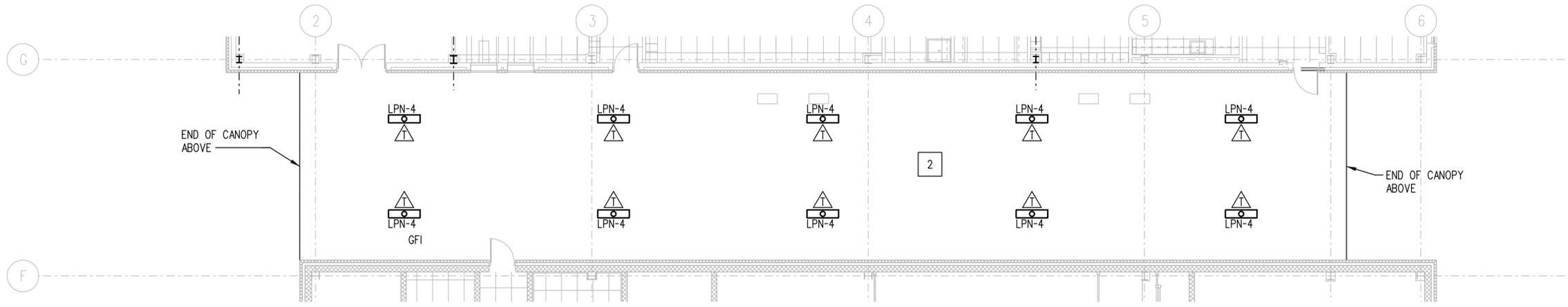
1. SHIFT LIGHTS AS REQUIRED FOR OBSTRUCTIONS TO PROVIDE UNIFORM LIGHT LEVELS.
2. CANOPY LIGHTING CIRCUIT SHALL BE SWITCH THROUGH EXTERIOR PHOTOCELL WITH A TIME CLOCK OVER RIDE. CONTRACTOR SHALL FIELD LOCATE PHOTCELL FOR OPTIMAL PERFORMANCE.



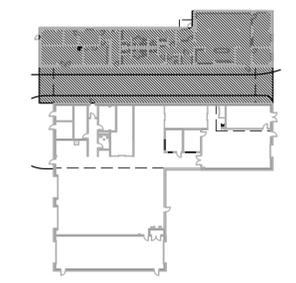
MATCH LINE - SEE E-202

MATCH LINE - SEE E-202

1 ELECTRICAL FLOOR PLAN - NORTH BUILDING - LIGHTING
E-201 SCALE: 1/8" = 1'-0"

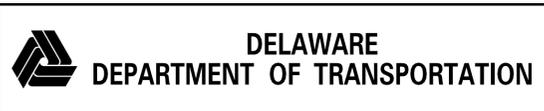


2 ELECTRICAL FLOOR PLAN - CANOPY - LIGHTING
E-201 SCALE: 1/8" = 1'-0"

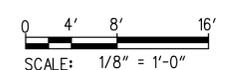


KEY PLAN
SCALE: N.T.S.

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ADDENDUMS / REVISIONS	



DELAWARE TRANSIT CORPORATION
LEWES PARK AND RIDE
AND MAINTENANCE FACILITY

CONTRACT T200612502	BRIDGE NO.
COUNTY SUSSEX	DESIGNED BY: MSM/SMC
	CHECKED BY: AP

ELECTRICAL FLOOR PLAN
NORTH BUILDING - LIGHTING

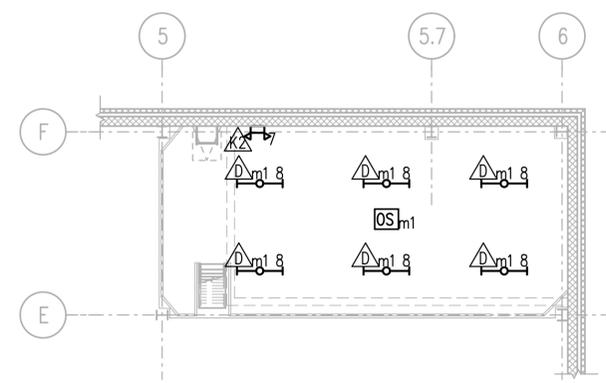
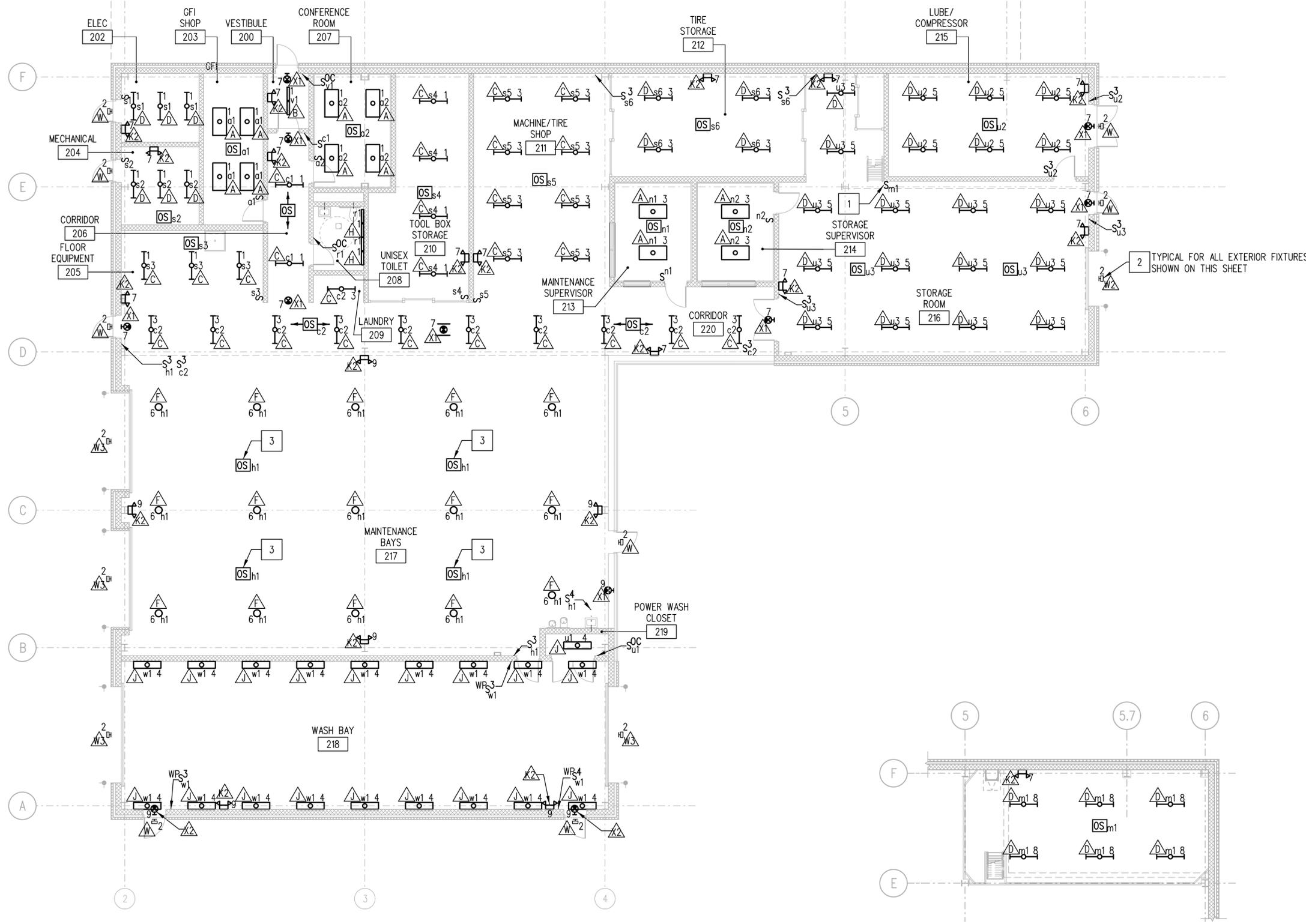
E-201
SHEET NO. 162
TOTAL SHTS. 185

GENERAL NOTES:

- 1. SEE DRAWING E-001 THRU E-003 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
- 2. SEE DRAWING E-701 FOR LIGHTING FIXTURE SCHEDULE.
- 3. ALL CIRCUIT NUMBERS SHOWN IN SOUTH BUILDING ARE CONNECTED TO PANEL LPS, UON.
- 4. ALL EXIT AND EMERGENCY LIGHTING SHALL UNSWITCHED.
- 5. SEE DRAWING E-702 THRU E-705 FOR PANELBOARD SCHEDULES.
- 6. SEE DRAWING E-602 FOR TYPICAL WIRING DIAGRAM FOR LIGHTING CONTROLS.

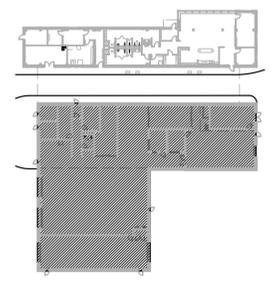
SPECIFIC NOTES:

- 1 LIGHT SWITCH FOR MEZZANINE LIGHTING ABOVE LUBE/COMPRESSOR ROOM, SEE MEZZANINE LIGHTING PLAN.
- 2 MOUNT EXTERIOR FIXTURES 12" ABOVE DOOR FRAME WITH CENTERLINE OF FIXTURE ALIGNED WITH THE CENTERLINE OF THE DOOR OVER WHICH IT IS MOUNTED.
- 3 HIGHWAY OCCUPANCY SENSOR PENDANT MOUNTED AT 25 FEET ABOVE FINISH FLOOR.



1 ELECTRICAL FLOOR PLAN - SOUTH BUILDING - LIGHTING
 E-202 SCALE: 1/8" = 1'-0"

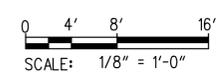
2 ELECTRICAL FLOOR PLAN - MEZZANINE - LIGHTING
 E-202 SCALE: 1/8" = 1'-0"



KEY PLAN
 SCALE: N.T.S.

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ADDENDUMS / REVISIONS	



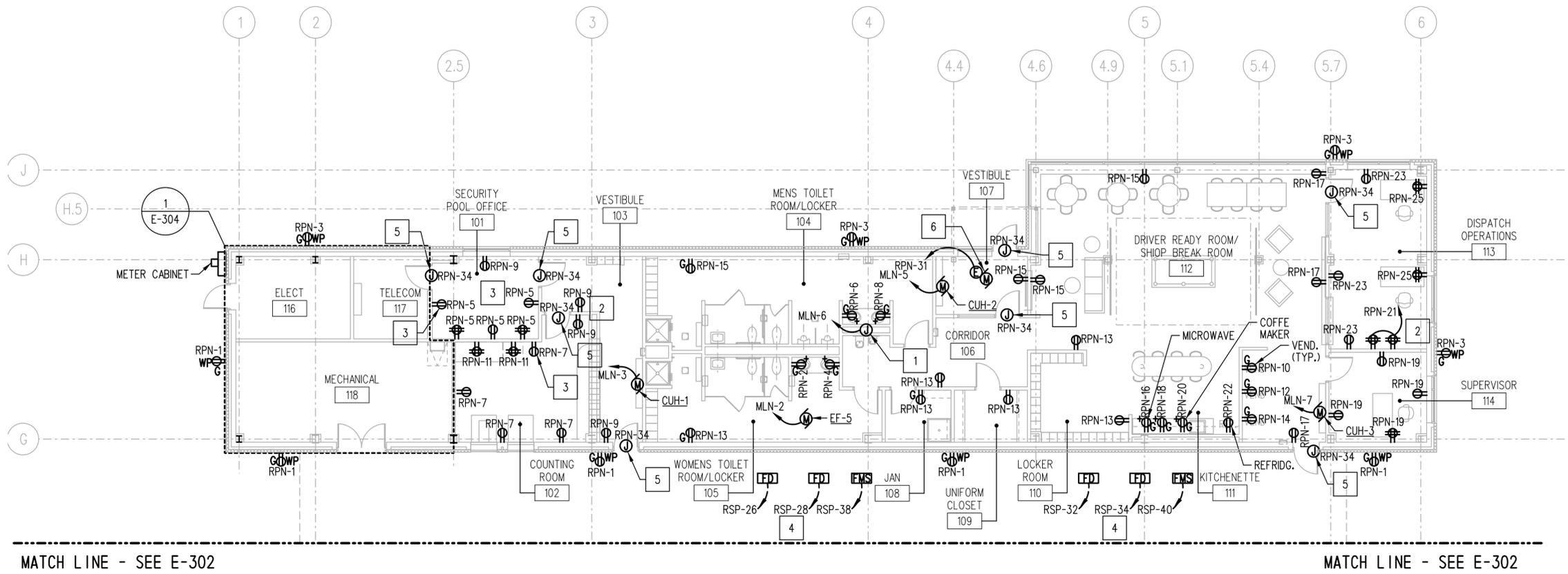
CONTRACT T200612502	BRIDGE NO.
COUNTY SUSSEX	DESIGNED BY: MSM/SMC
	CHECKED BY: AP

GENERAL NOTES:

- SEE DRAWING E-001 THRU E-003 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
- SEE DRAWING E-501 FOR SINGLE LINE DIAGRAM.
- SEE DRAWING E-702 THRU E-705 FOR PANELBOARD SCHEDULES.

SPECIFIC NOTES:

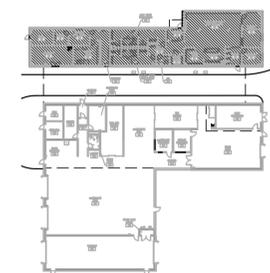
- PROVIDE JUNCTION BOX FOR ELECTRIC WATER COOLER POWER, CONCEAL IN PLUMBING CHASE.
- RECEPTACLES FOR SECURITY MONITORS.
- COORDINATE MOUNTING HEIGHT WITH MONITOR INSTALLATION.
- PROVIDE CLASSIFIED SEALS ON ALL EQUIPMENT CONDUITS AND STUB-UPS AT FUEL DISPENSING EQUIPMENT AND AT PANEL.
- POWER FOR ACCESS CONTROL EQUIPMENT SEE DRAWINGS E-605 AND E-606 FOR INSTALLATION DETAILS.
- MOTORIZED DOOR.



MATCH LINE - SEE E-302

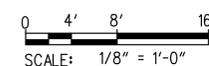
MATCH LINE - SEE E-302

1 ELECTRICAL FLOOR PLAN - NORTH BUILDING - POWER
E-301 SCALE: 1/8" = 1'-0"



KEY PLAN
SCALE: N.T.S.

ADDENDUMS / REVISIONS



DELAWARE TRANSIT CORPORATION
LEWES PARK AND RIDE
AND MAINTENANCE FACILITY

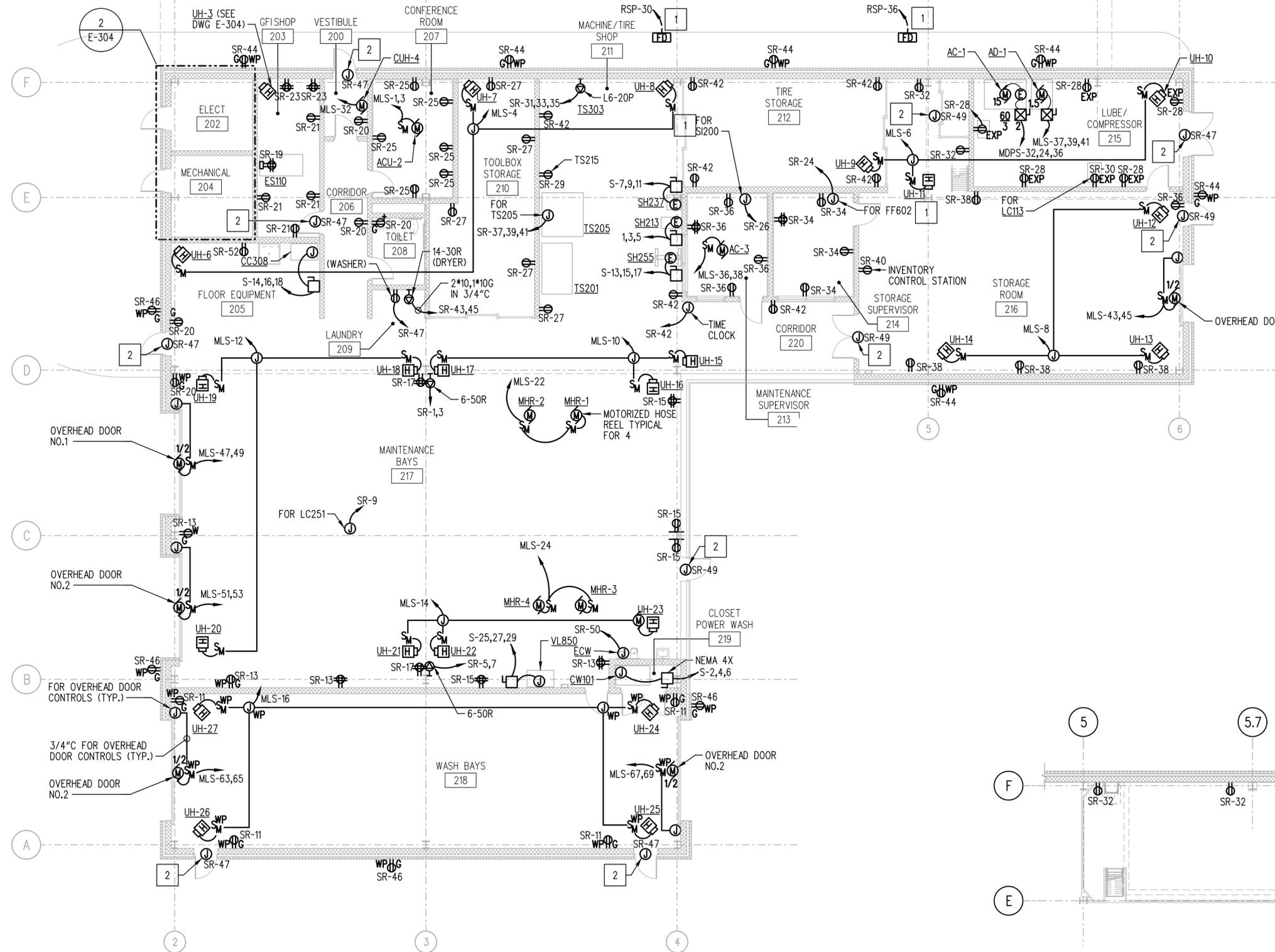
CONTRACT	T200612502	BRIDGE NO.	
COUNTY	SUSSEX	DESIGNED BY:	MSM/SMC
		CHECKED BY:	AP

ELECTRICAL FLOOR PLAN
NORTH BUILDING POWER

E-301
SHEET NO.
164
TOTAL SHTS.
185

MATCHLINE - SEE E-301

MATCHLINE - SEE E-301

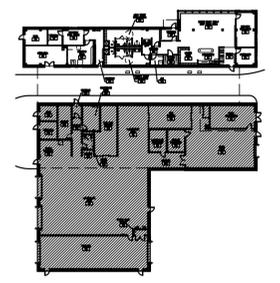
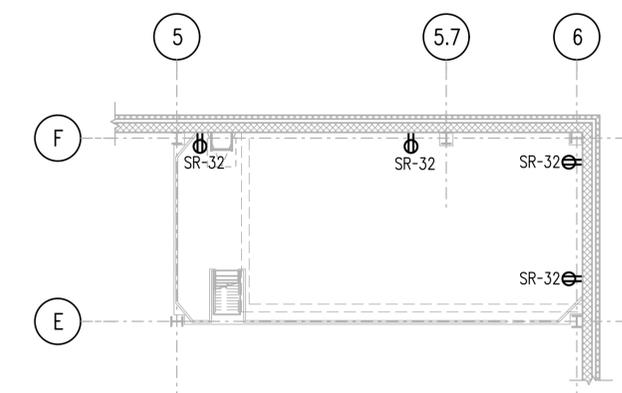


1 ELECTRICAL FLOOR PLAN - SOUTH BUILDING - POWER
 E-302 SCALE: 1/8" = 1'-0"

2 ELECTRICAL FLOOR PLAN - MEZZANINE - POWER
 E-302 SCALE: 1/8" = 1'-0"

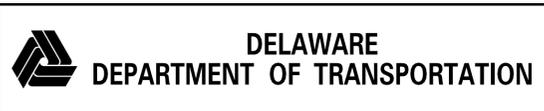
- GENERAL NOTES:**
- SEE DRAWING E-001 THRU E-003 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
 - SEE DRAWING E-501 FOR SINGLE LINE DIAGRAM.
 - SEE DRAWING E-702 THRU E-705 FOR PANELBOARD SCHEDULES.
 - ALL RECEPTACLES IN THE MAINTENANCE BAY SHALL BE MOUNTED 30" AFF.

- SPECIFIC NOTES:**
- PROVIDE CLASSIFIED SEALS ON ALL EQUIPMENT CONDUITS AND STUB-UPS AT FUEL DISPENSING EQUIPMENT AND AT PANEL.
 - POWER FOR ACCESS CONTROL EQUIPMENT. SEE DRAWINGS E-605 AND E-606 FOR INSTALLATION DETAILS.

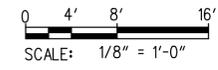


KEY PLAN
 SCALE: N.T.S.

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ADDENDUMS / REVISIONS	



DELAWARE TRANSIT CORPORATION
LEWES PARK AND RIDE
AND MAINTENANCE FACILITY

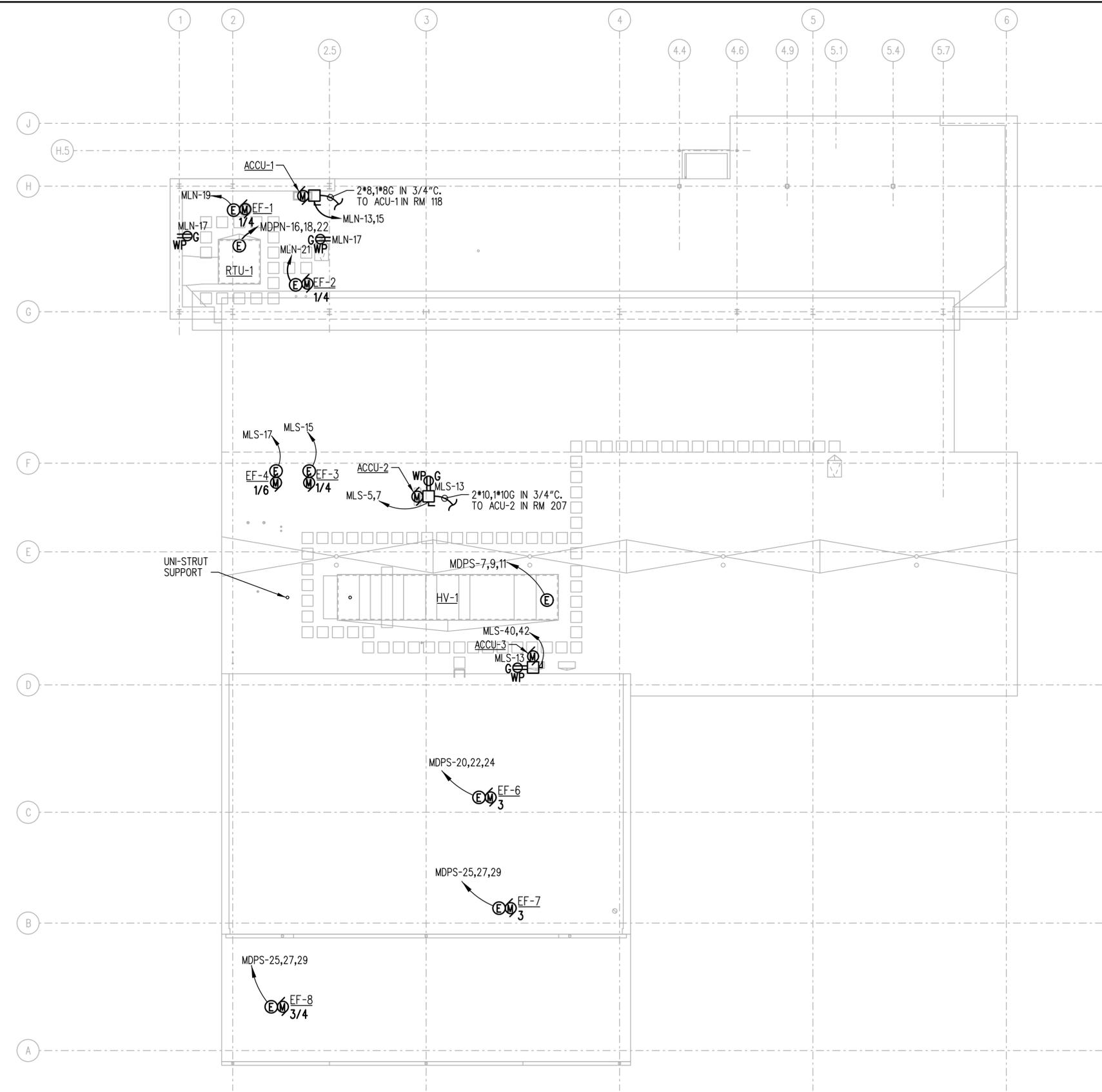
CONTRACT T200612502	BRIDGE NO.
COUNTY SUSSEX	DESIGNED BY: MSM/SMC
	CHECKED BY: AP

ELECTRICAL FLOOR PLAN
SOUTH BUILDING POWER

E-302
SHEET NO. 165
TOTAL SHTS. 185

GENERAL NOTES:

1. SEE DRAWING E-001 THRU E-003 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. SEE DRAWING E-501 FOR SINGLE LINE DIAGRAM.
3. SEE DRAWING E-702 THRU E-705 FOR PANELBOARD SCHEDULES.
4. ALL ROOF DISCONNECT SWITCHES SHALL BE RATED NEMA 4X.

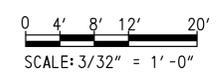


1 ELECTRICAL ROOF PLAN - POWER
 E-303 SCALE: 3/32" = 1'-0"

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ADDENDUMS / REVISIONS	

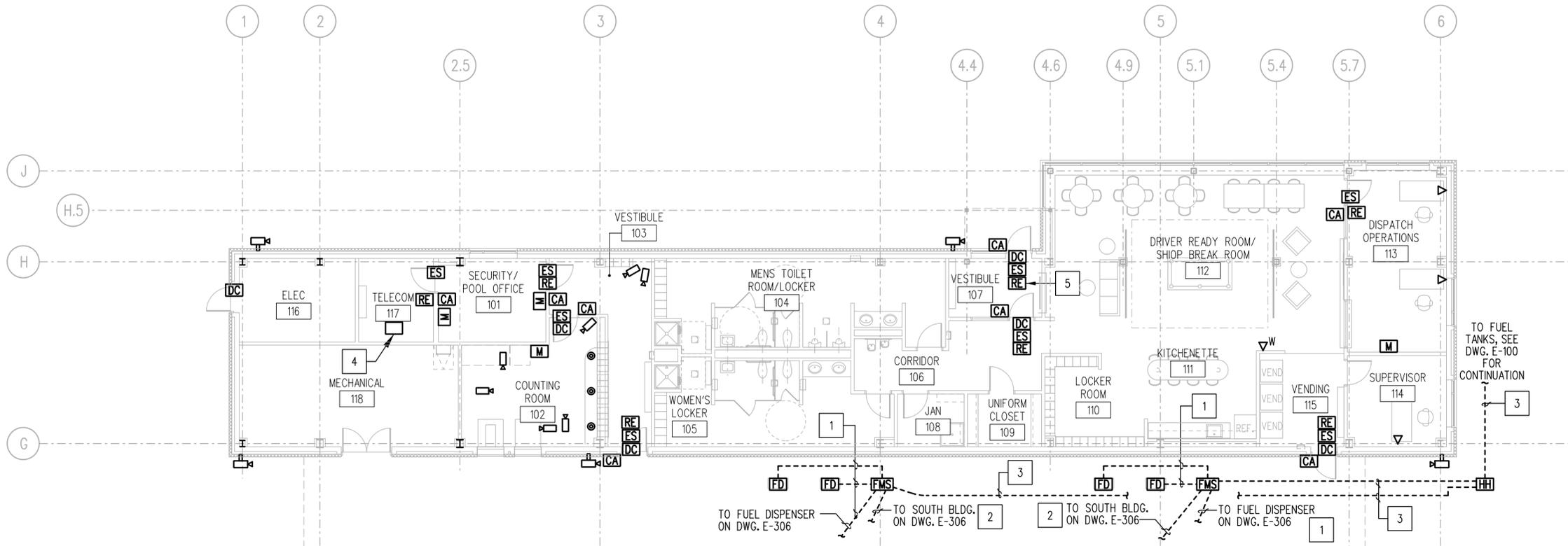


DELAWARE TRANSIT CORPORATION
LEWES PARK AND RIDE
AND MAINTENANCE FACILITY

CONTRACT T200612502	BRIDGE NO.
COUNTY SUSSEX	DESIGNED BY: MSM/SMC
	CHECKED BY: AP

ELECTRICAL ROOF PLAN
- POWER

E-303
SHEET NO. 166
TOTAL SHTS. 185



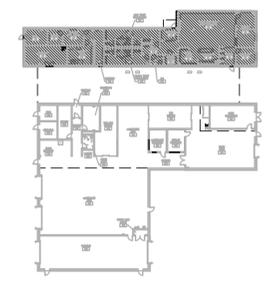
- GENERAL NOTES:**
- SEE DRAWING E-001 THRU E-003 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
 - COORDINATE EXACT CAMERA ANGLE AND VIEW WITH THE OWNER PRIOR TO FINAL ACCEPTANCE. ALL EXTERIOR CAMERAS SHALL BE WEATHERPROOF TYPE.
 - PROVIDE CLASSIFIED SEALS FOR ALL CONDUIT STUBUPS TO FUEL DISPENSING EQUIPMENT.
 - SEE DRAWINGS E-605, E-606, E-607 AND E-608 AND SPECIFICATIONS FOR INSTALLATION DETAILS AND WIRING REQUIREMENTS.
- PROVIDE 3/4" CONDUIT FROM EACH SECURITY AND ACCESS CONTROL DEVICE BACK TO RECK IN ROOM 117.

- SPECIFIC NOTES:**
- 2" C. WITH PULL STRING.
 - (2) 2" C., EACH WITH PULL STRING
(1) 2" C. TO RM. 213
(1) 2" C. TO RM. 214
 - 4" C. WITH PULL STRING.
 - 44U FLOOR MOUNTED RACK.
 - CARD SWIPE TO RELEASE DOOR AND ACTIVATE OPERATOR. INTERIOR DOOR TO HAVE DELAYED RELEASE UNTIL EXTERIOR DOOR IS CLOSED AND SECURED.

MATCH LINE - SEE E-306

MATCH LINE - SEE E-306

1 ELECTRICAL FLOOR PLAN - NORTH BUILDING - SPECIAL SYSTEMS
E-305 SCALE: 1/8" = 1'-0"

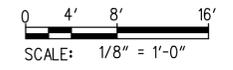


KEY PLAN
SCALE: N.T.S.

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ADDENDUMS / REVISIONS	



DELAWARE TRANSIT CORPORATION
LEWES PARK AND RIDE
AND MAINTENANCE FACILITY

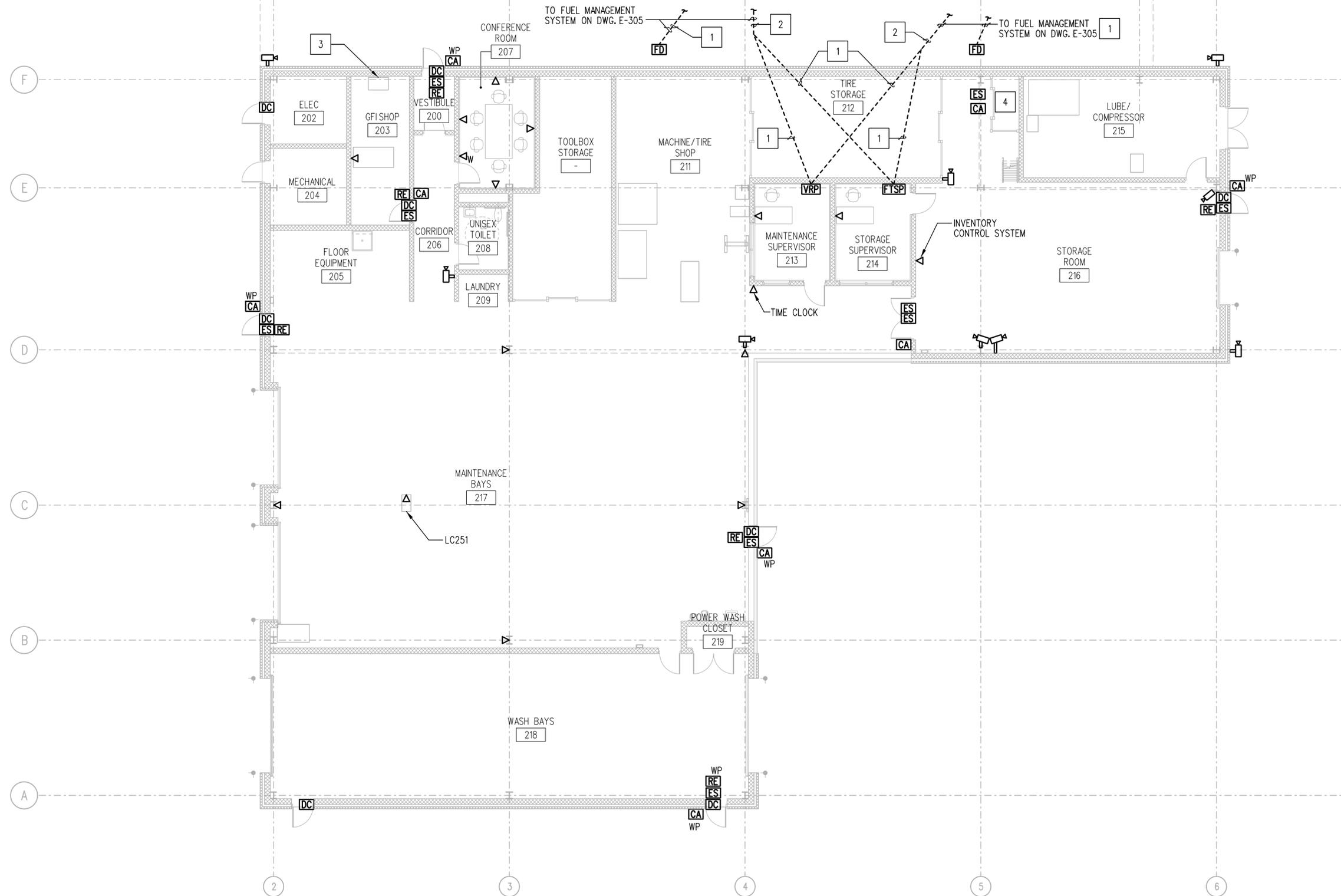
CONTRACT T200612502	BRIDGE NO.
COUNTY SUSSEX	DESIGNED BY: MSM/SMC
	CHECKED BY: AP

ELECTRICAL FLOOR PLAN
NORTH BUILDING
SPECIAL SYSTEMS

E-305
SHEET NO. 168
TOTAL SHTS. 185

MATCHLINE - SEE E-305

MATCHLINE - SEE E-305



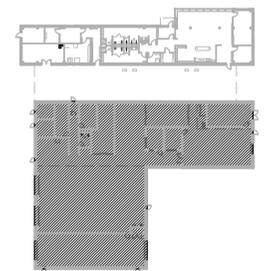
GENERAL NOTES:

- SEE DRAWING E-001 THRU E-003 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
- COORDINATE EXACT CAMERA ANGLE AND VIEW WITH THE OWNER PRIOR TO FINAL ACCEPTANCE. ALL EXTERIOR CAMERAS SHALL BE WEATHERPROOF TYPE.
- PROVIDE CLASSIFIED SEALS FOR ALL CONDUIT STUB UPS TO FUEL DISPENSING EQUIPMENT.
- SEE DRAWINGS E-605, E-606, E-607 AND E-608 AND SPECIFICATIONS FOR INSTALLATION DETAILS AND WIRING REQUIREMENTS.
- PROVIDE 3/4" CONDUIT FROM EACH SECURITY AND ACCESS CONTROL DEVICE BACK TO RECK IN RM 203.

SPECIFIC NOTES:

- 2"C. WITH PULL STRING.
- (2) 2"C., EACH WITH PULL STRING BOTH TO FUEL MANAGEMENT SYSTEM.
- 24U RACK.
- COORDINATE HEIGHTS WITH CAGE MANUFACTURER.

1 ELECTRICAL FLOOR PLAN - SOUTH BUILDING - SPECIAL SYSTEMS
 E-306 SCALE: 1/8" = 1'-0"



KEY PLAN
 SCALE: N.T.S.

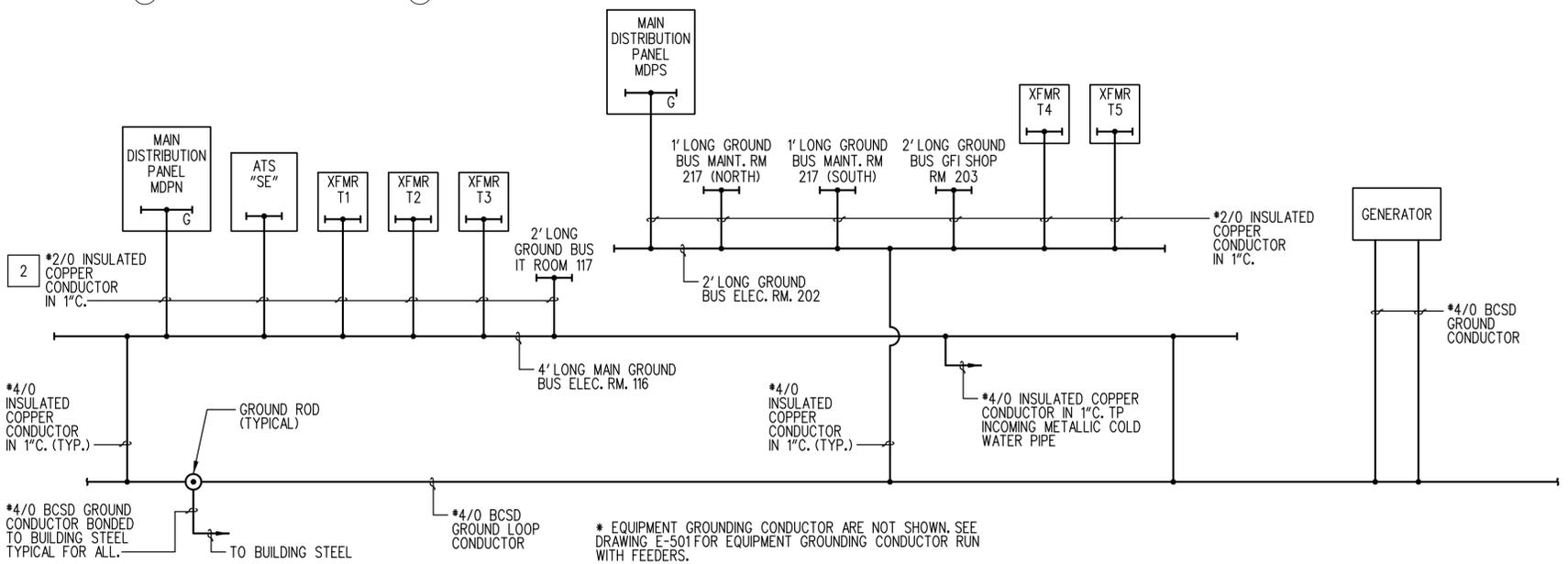
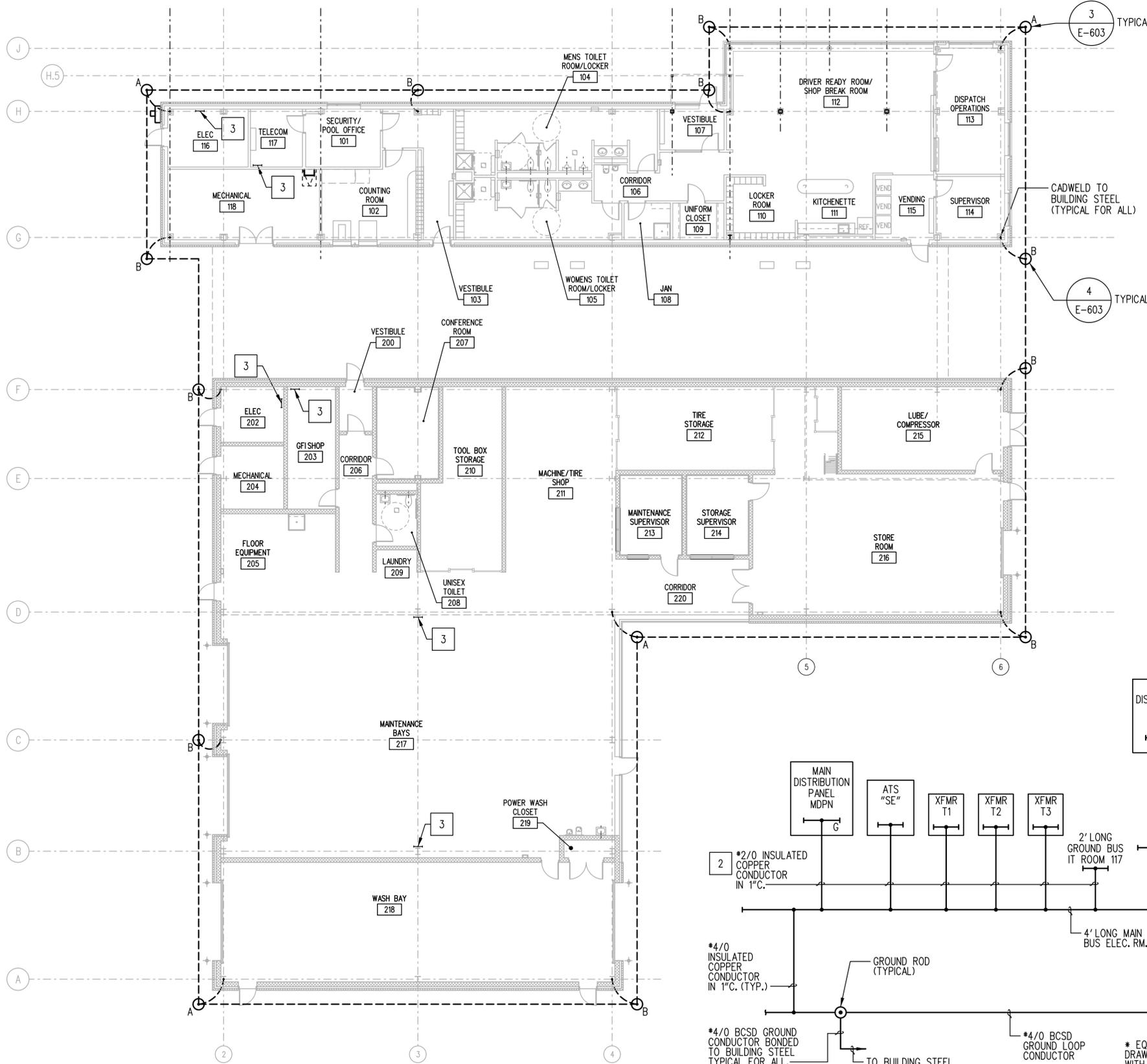
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GENERAL NOTES:

1. SEE DRAWING E001 THROUGH E003 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. SEE DRAWING E-603 FOR ADDITIONAL GROUNDING DETAILS.

SPECIFIC NOTES:

- 1 ALL GROUNDING MATERIAL SHALL BE UL RATED.
- 2 ALL CONNECTIONS TO GROUND BUS SHALL BE DONE BY IRREVERSIBLE COMPRESSION TYPE, UL RATED CONNECTORS ON CONDUCTORS AND BOLTED CONNECTION GROUND BUS.
- 3 GROUND BUS, COORDINATE EXACT LOCATION IN FIELD. SEE DETAIL 8 ON SHEET E-603.

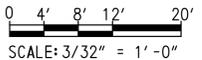


1 ELECTRICAL PLAN - GROUNDING
E-401 SCALE: 1/8" = 1'-0"

2 GROUNDING RISER DIAGRAM
E-401 SCALE: NOT TO SCALE

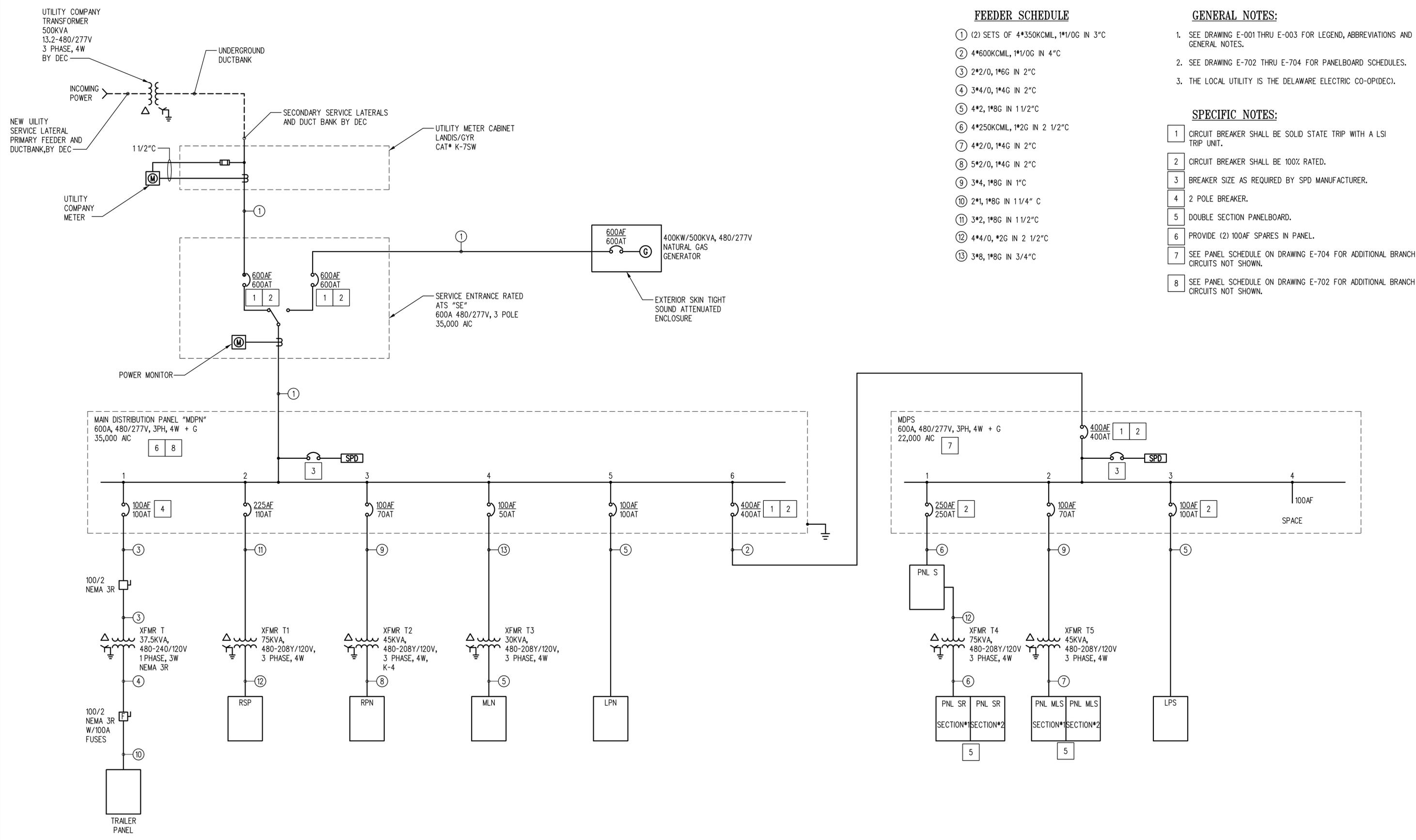
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ADDENDUMS / REVISIONS	



CONTRACT T200612502	BRIDGE NO.
COUNTY SUSSEX	DESIGNED BY: MSM
	CHECKED BY: AP

E-401
SHEET NO. 170
TOTAL SHTS. 185



FEEDER SCHEDULE

- ① (2) SETS OF 4*350KCMIL, 1*1/0G IN 3" C
- ② 4*600KCMIL, 1*1/0G IN 4" C
- ③ 2*2/0, 1*6G IN 2" C
- ④ 3*4/0, 1*4G IN 2" C
- ⑤ 4*2, 1*8G IN 1 1/2" C
- ⑥ 4*250KCMIL, 1*2G IN 2 1/2" C
- ⑦ 4*2/0, 1*4G IN 2" C
- ⑧ 5*2/0, 1*4G IN 2" C
- ⑨ 3*4, 1*8G IN 1" C
- ⑩ 2*1, 1*8G IN 1 1/4" C
- ⑪ 3*2, 1*8G IN 1 1/2" C
- ⑫ 4*4/0, *2G IN 2 1/2" C
- ⑬ 3*8, 1*8G IN 3/4" C

GENERAL NOTES:

1. SEE DRAWING E-001 THRU E-003 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. SEE DRAWING E-702 THRU E-704 FOR PANELBOARD SCHEDULES.
3. THE LOCAL UTILITY IS THE DELAWARE ELECTRIC CO-OP(DEC).

SPECIFIC NOTES:

1. CIRCUIT BREAKER SHALL BE SOLID STATE TRIP WITH A LSI TRIP UNIT.
2. CIRCUIT BREAKER SHALL BE 100% RATED.
3. BREAKER SIZE AS REQUIRED BY SPD MANUFACTURER.
4. 2 POLE BREAKER.
5. DOUBLE SECTION PANELBOARD.
6. PROVIDE (2) 100AF SPARES IN PANEL.
7. SEE PANEL SCHEDULE ON DRAWING E-704 FOR ADDITIONAL BRANCH CIRCUITS NOT SHOWN.
8. SEE PANEL SCHEDULE ON DRAWING E-702 FOR ADDITIONAL BRANCH CIRCUITS NOT SHOWN.

1 SINGLE LINE DIAGRAM
E-501 SCALE: NTS

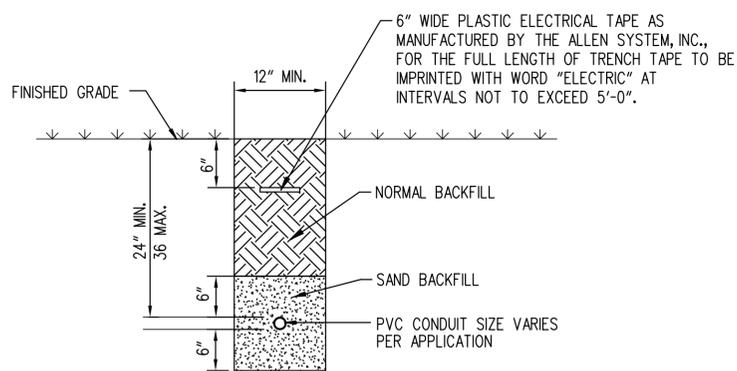
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ADDENDUMS / REVISIONS	

CONTRACT T200612502	BRIDGE NO.
COUNTY SUSSEX	DESIGNED BY: MSM/SMC
	CHECKED BY: AP

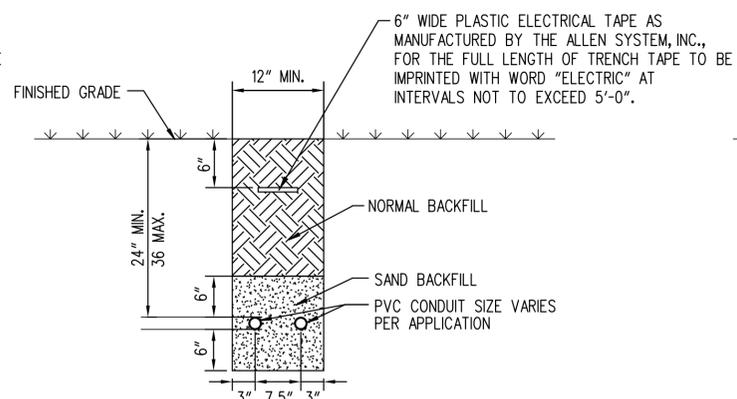
GENERAL NOTES:

- SEE DRAWING E001 THRU E003 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.



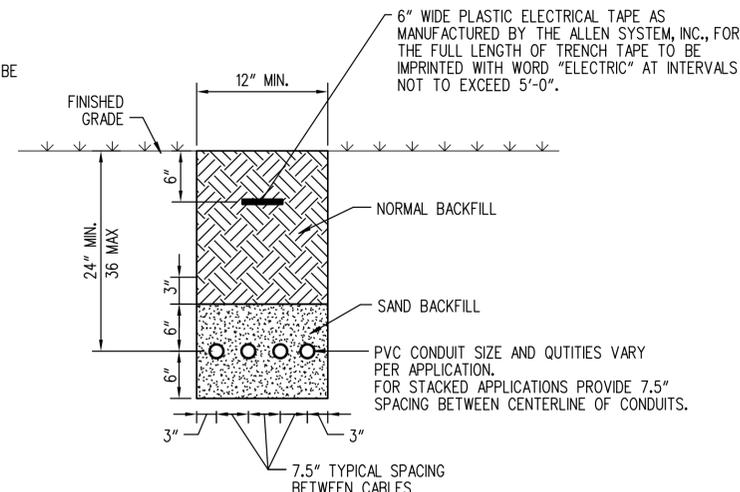
1 SINGLE DIRECT BURIED CONDUIT INSTALLATION DETAIL

E-601 SCALE: NTS



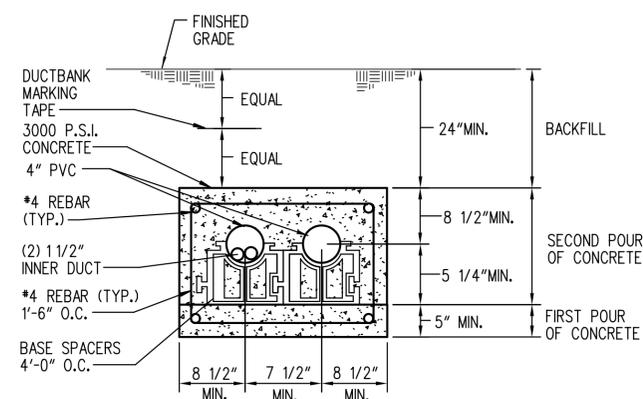
2 2 WAY DIRECT BURIED CONDUIT INSTALLATION DETAIL

E-601 SCALE: NTS



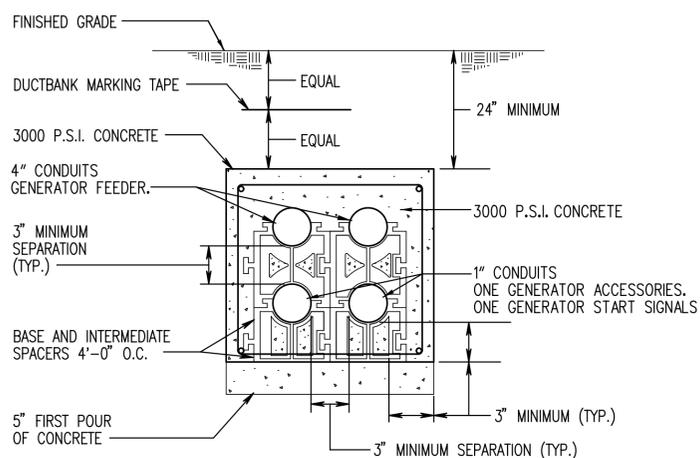
3 MULTIPLE DIRECT BURIED CONDUIT INSTALLATION TYPICAL DETAIL

E-601 SCALE: NTS



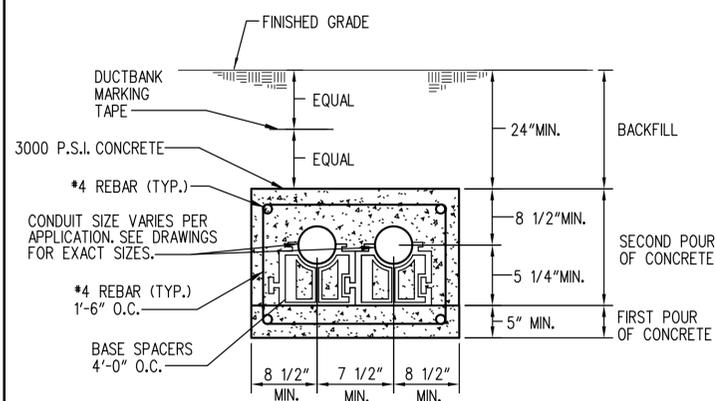
4 DUCTBANK DETAIL TELE/DATA W/ INNERDUCT

E-601 SCALE: NTS



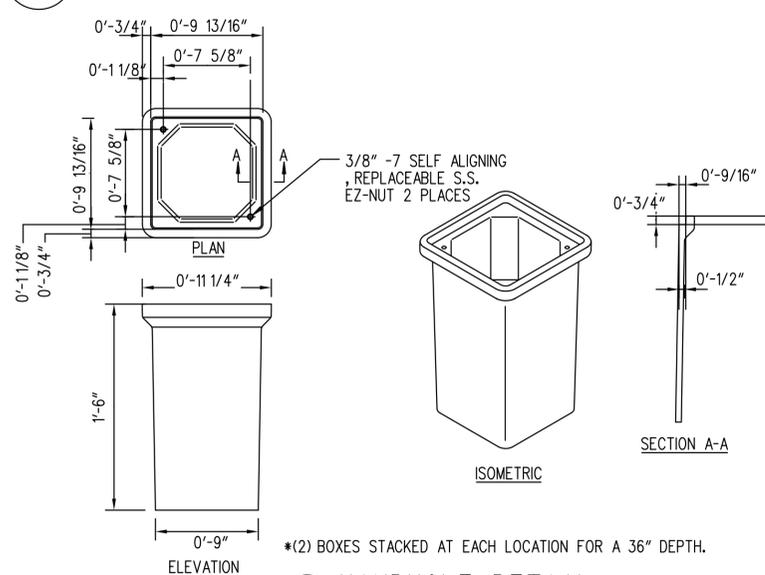
5 GENERATOR POWER/CONTROLS

E-601 SCALE: NTS



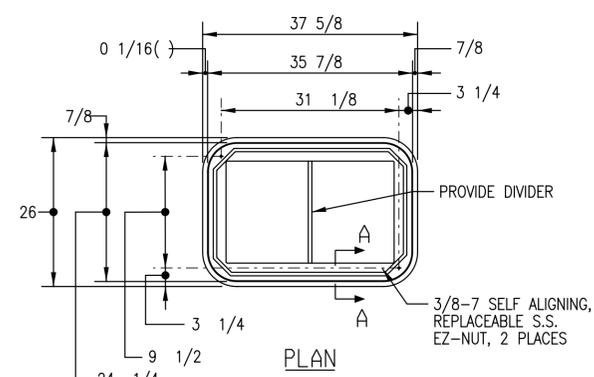
6 TYPICAL TWO WAY DUCTBANK DETAIL

E-601 SCALE: NTS



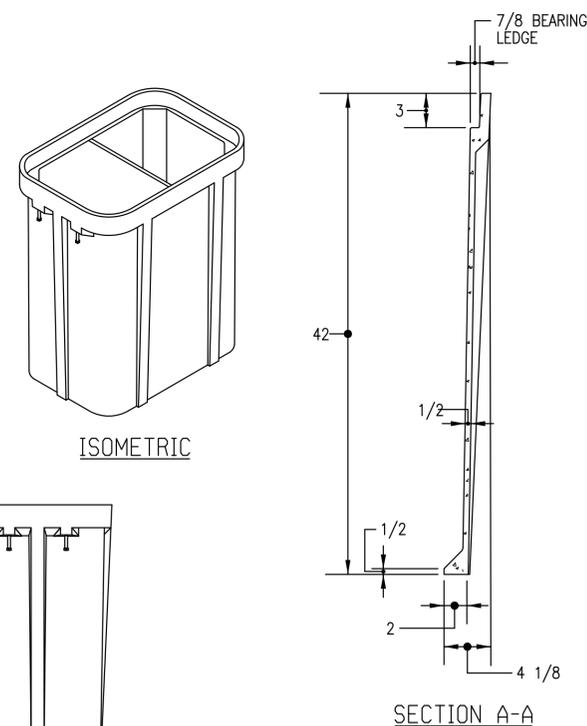
7 DIVIDED HANDHOLE DETAIL

E-601 SCALE: NTS



8 HANDHOLE DETAIL

E-601 SCALE: NTS



9 ISOMETRIC

E-601 SCALE: NTS

SECTION A-A

- NOTE:**
- PROVIDE 2 PIECE COVER; LOGO 1 : ELECTRIC LOGO 2 : COMMUNICATIONS

* (2) BOXES STACKED AT EACH LOCATION FOR A 36" DEPTH.

6 HANDHOLE DETAIL

E-601 SCALE: NTS

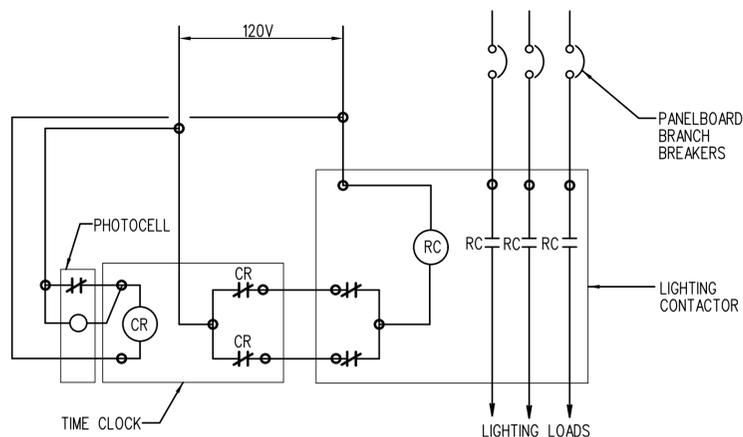
7 DIVIDED HANDHOLE DETAIL

E-601 SCALE: NTS

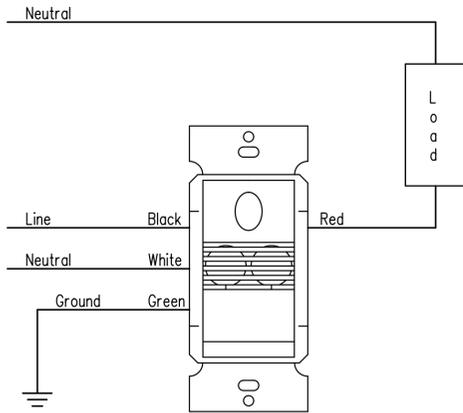
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GENERAL NOTES:

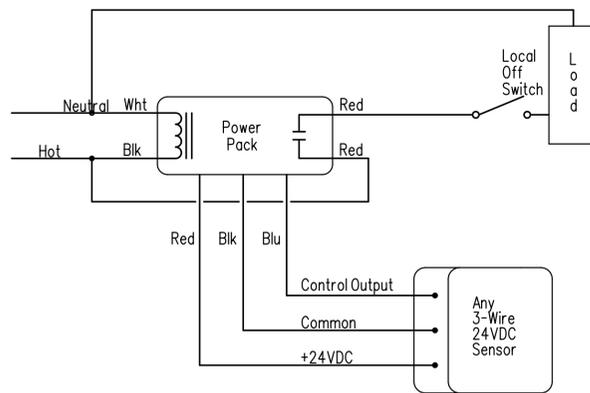
- SEE DRAWING E-001 THRU E-003 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.



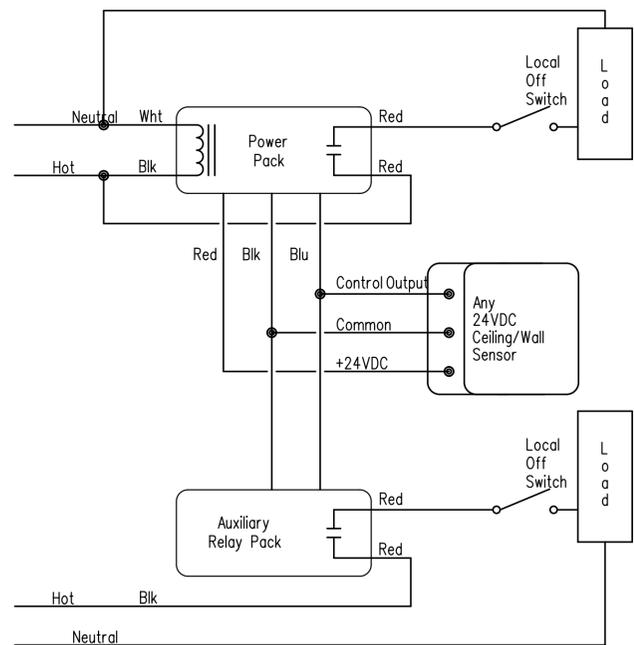
1 EXTERIOR LIGHTING CONTROL SCHEMATIC
E-602 SCALE: NTS



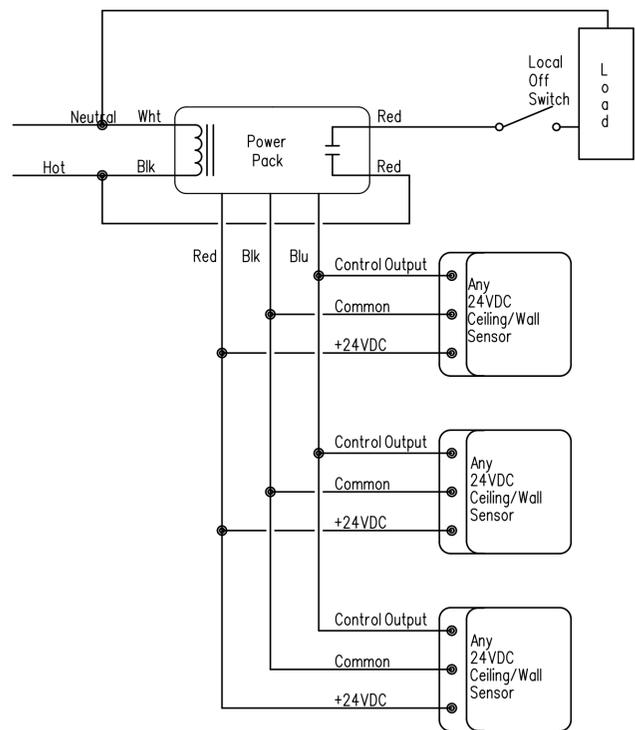
2 WALL MOUNTED SENSOR AND SWITCH DIAGRAM
E-602 SCALE: NTS



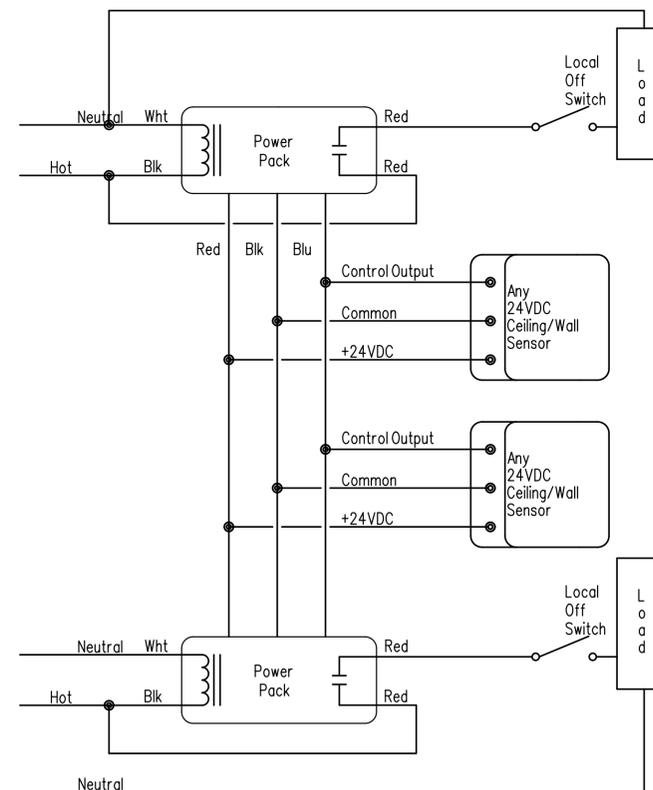
3 CEILING SENSOR SCHEMATIC DIAGRAM
E-602 SCALE: NTS



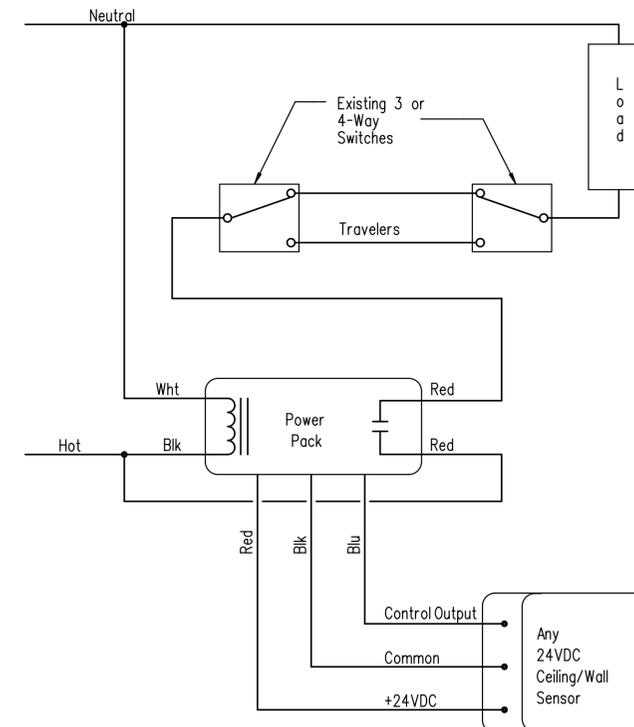
4 TWO CIRCUIT SENSOR CONTROL DIAGRAM
E-602 SCALE: NTS



5 MULTIPLE OCCUPANCY SENSORS DIAGRAM CONTROLLING SINGLE CIRCUITS
E-602 SCALE: NTS



6 MULTIPLE OCCUPANCY SENSORS DIAGRAM CONTROLLING TWO CIRCUITS
E-602 SCALE: NTS

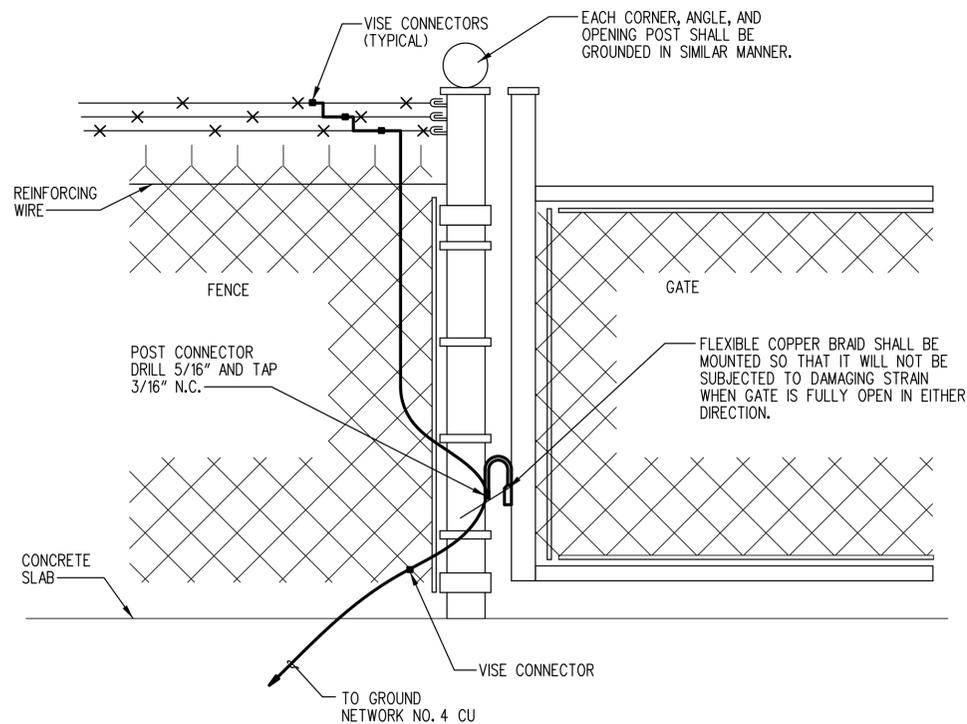


7 CEILING SENSOR DIAGRAM WITH 3 OR 4 WAY SWITCHING
E-602 SCALE: NTS

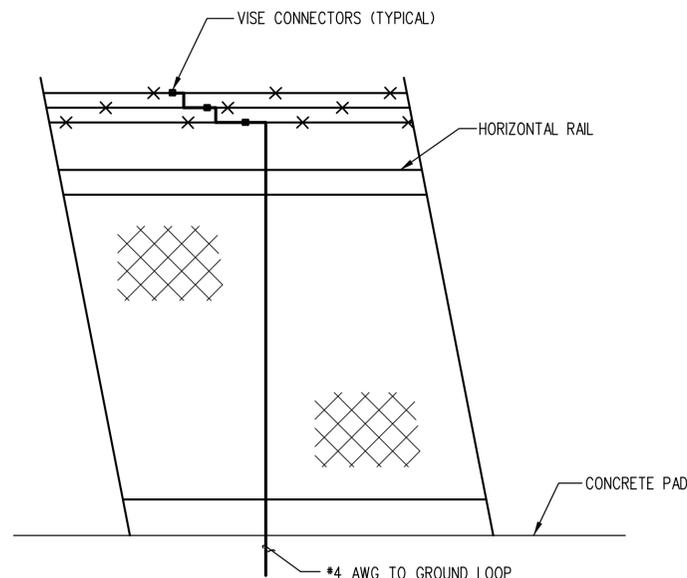
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GENERAL NOTES:

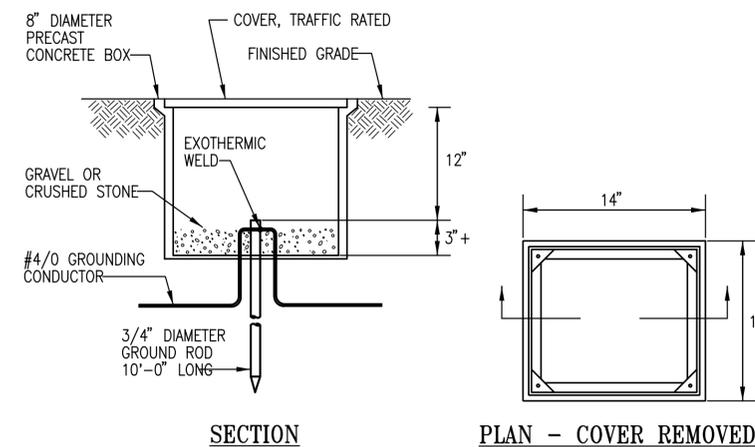
1. SEE DRAWING E-001 THRU E-003 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.



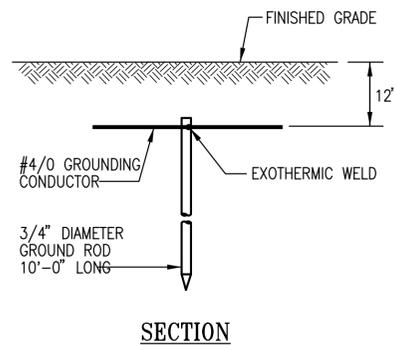
1 FENCE GATE GROUNDING DETAIL
E-603 / SCALE: NTS



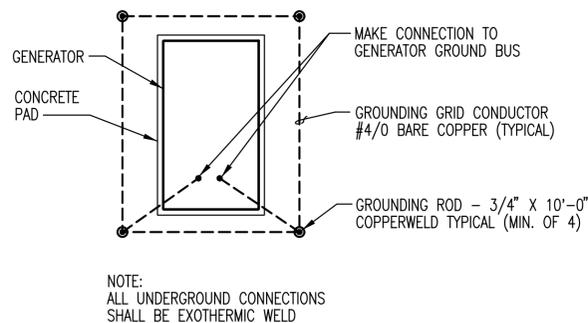
2 FENCE GROUNDING DETAIL
E-603 / SCALE: NTS



3 GROUND ROD TYPE "A" DETAIL
E-603 / SCALE: NTS

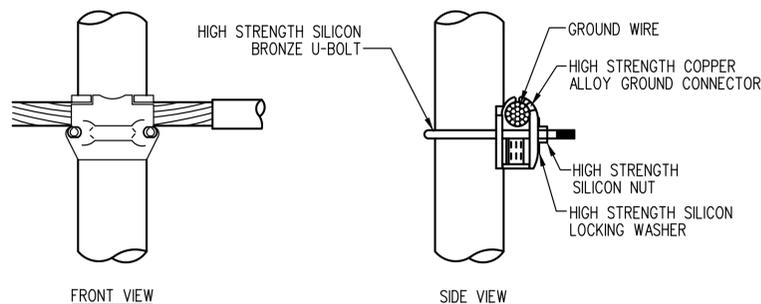


4 GROUND ROD TYPE "B" DETAIL
E-603 / SCALE: NTS

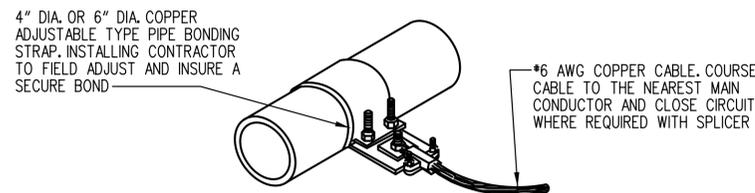


NOTE:
ALL UNDERGROUND CONNECTIONS
SHALL BE EXOTHERMIC WELD

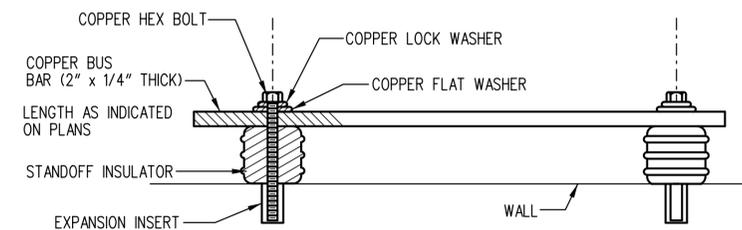
5 EMERGENCY GENERATOR GROUNDING GRID DETAIL
E-603 / SCALE: NTS



6 GROUNDING WIRE TO PIPE DETAIL
E-603 / SCALE: NTS

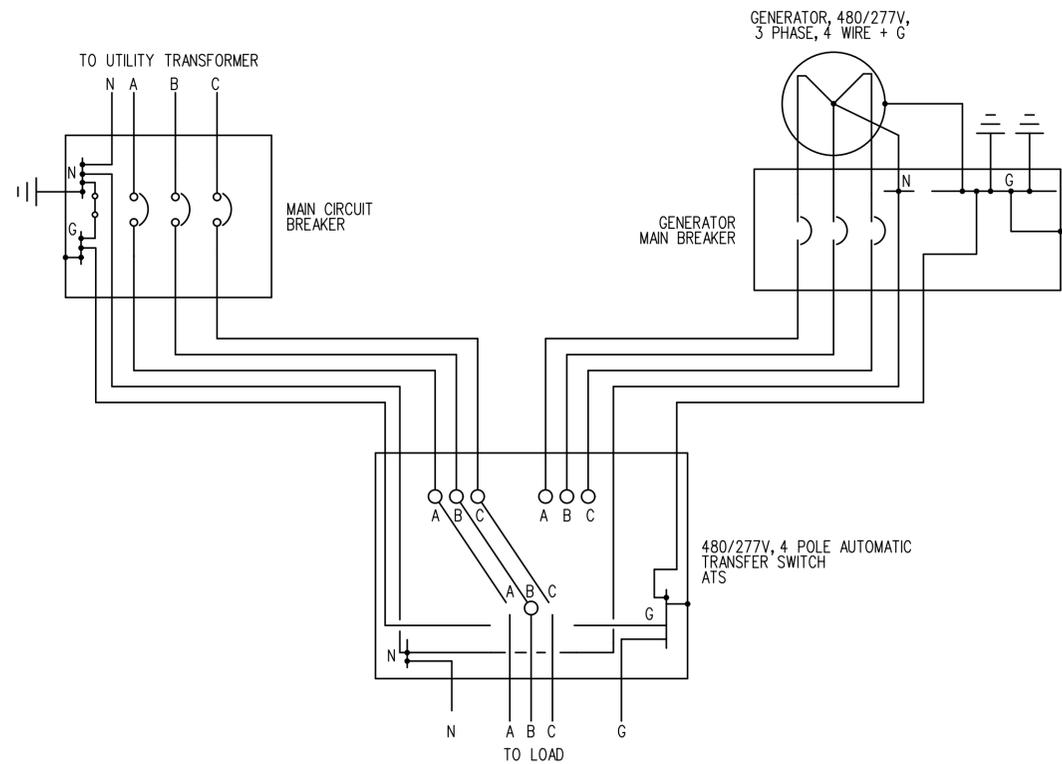


7 TYPICAL PIPE GROUNDING DETAIL
E-603 / SCALE: NTS

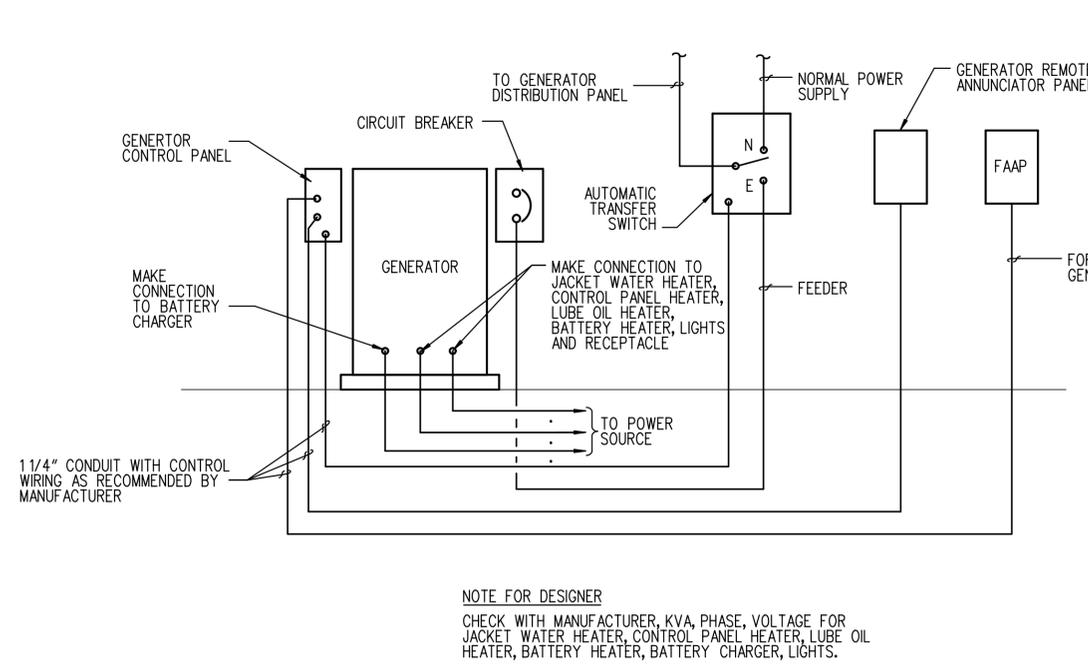


8 GROUND BUS DETAIL
E-603 / SCALE: NTS

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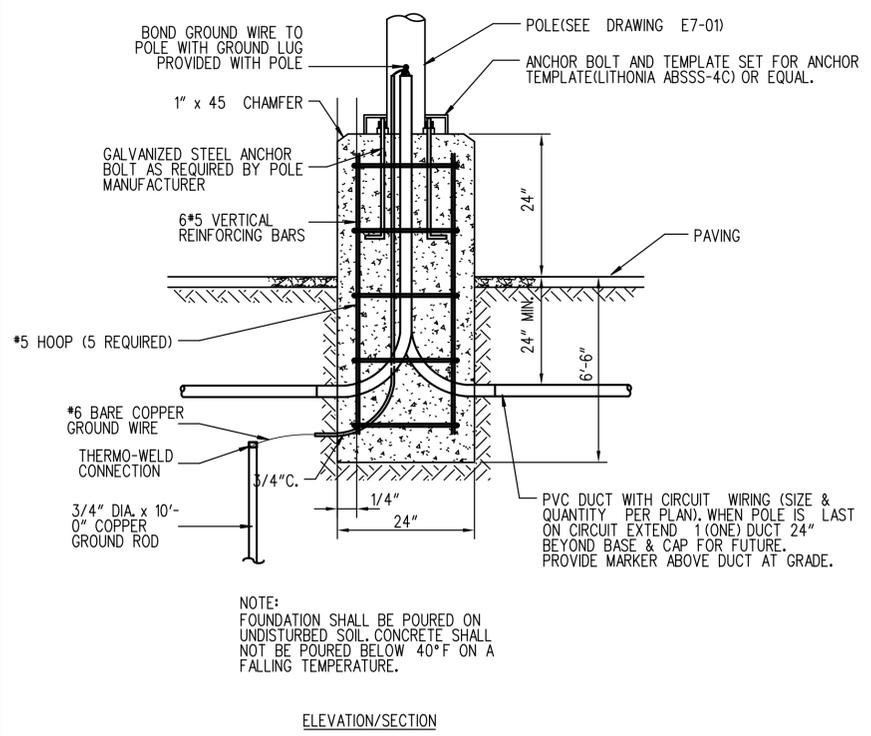


1 EMERGENCY GENERATOR, ATS, AND MAIN CIRCUIT BREAKER CONNECTION DETAIL - 3 PHASE, 4 WIRE SYSTEM
E-604 SCALE: NTS

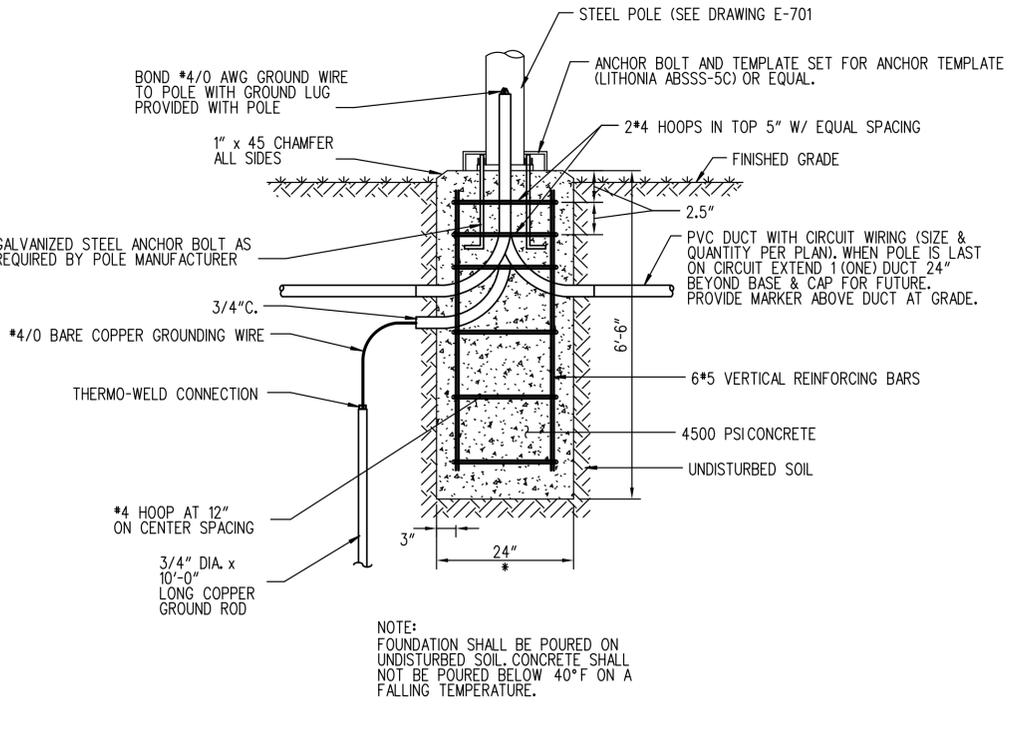


2 GENERATOR CONNECTION WIRING DIAGRAM
E-604 SCALE: NTS

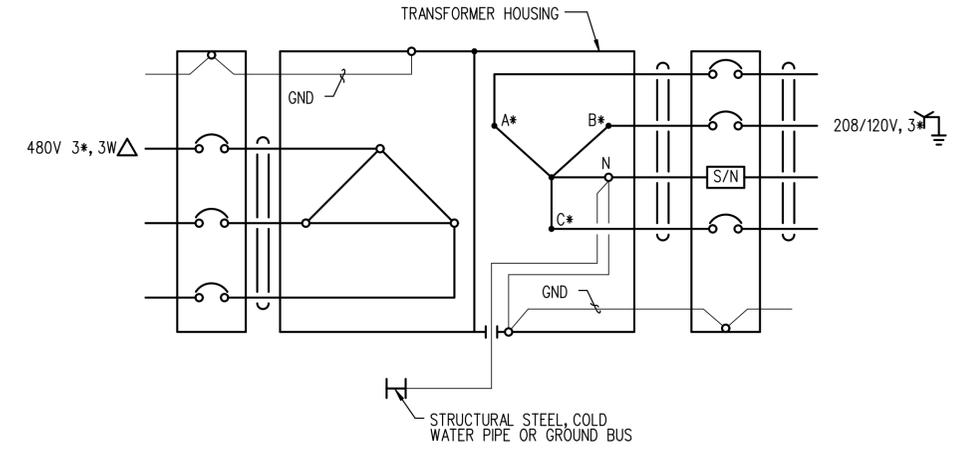
- GENERAL NOTES:**
- SEE DRAWING E001 THRU E003 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
- SPECIFIC NOTES:**
- CIRCUIT BREAKER SHALL BE SOLID STATE TRIP WITH A LSI TRIP UNIT.
 - CIRCUIT BREAKER SHALL BE 100% RATED.
 - BREAKER SIZE AS REQUIRED BY SPD MANUFACTURER.



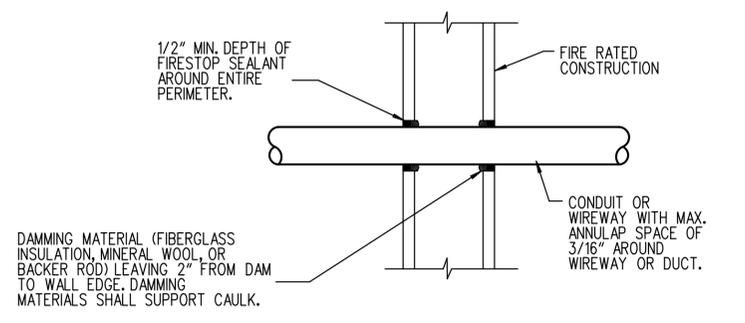
3 POLE BASE DETAIL - FIXTURE TYPE H1 & H2
E-604 SCALE: NTS



4 POLE BASE DETAIL - FIXTURE TYPE H3 & H4
E-604 SCALE: NTS



5 DRY TYPE TRANSFORMER WIRING
E-604 SCALE: NTS

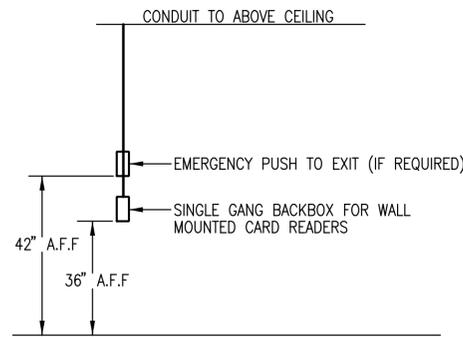


6 DETAIL - FIRE STOP THROUGH WALL
E-604 SCALE: NTS

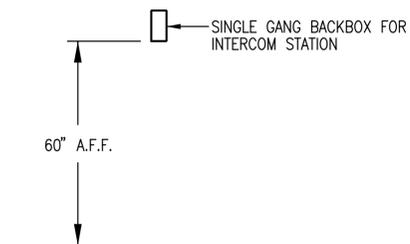
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ADDENDUMS / REVISIONS	

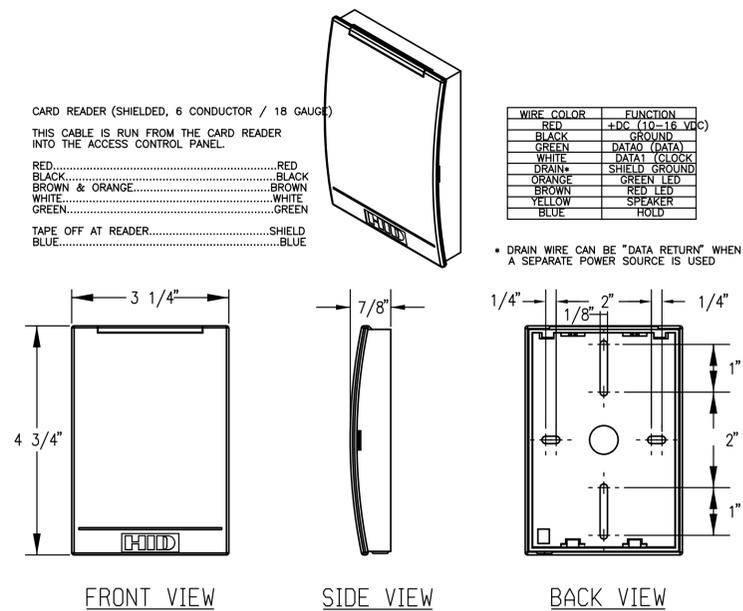
CONTRACT T200612502	BRIDGE NO.
COUNTY SUSSEX	DESIGNED BY: MSM
	CHECKED BY: AP



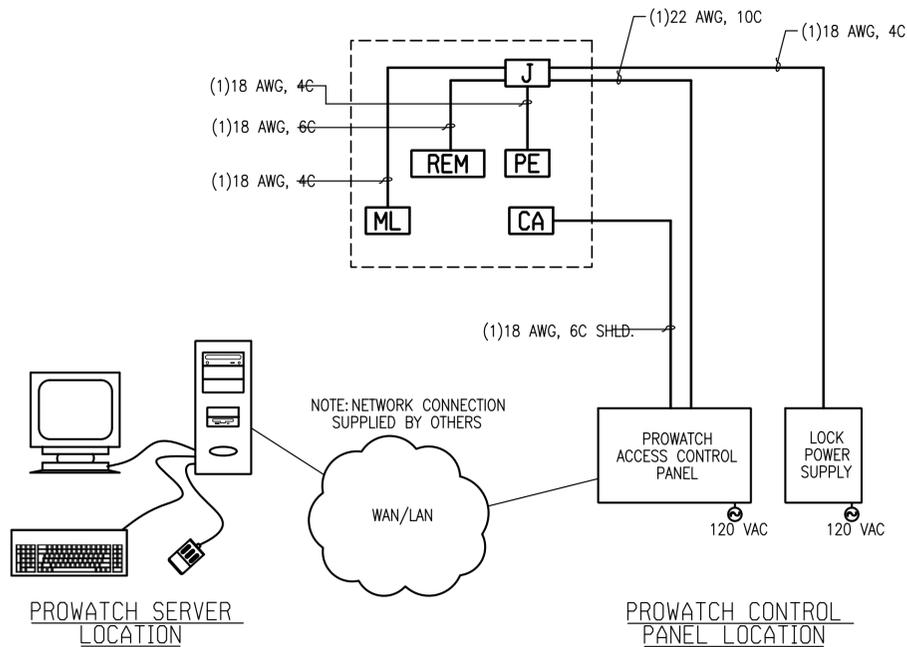
1 CARD READER BACKBOX DETAIL (TYPICAL)
E-605 SCALE: NTS



2 INTERCOM VIDEO STATION BACKBOX DETAIL
E-605 SCALE: NTS

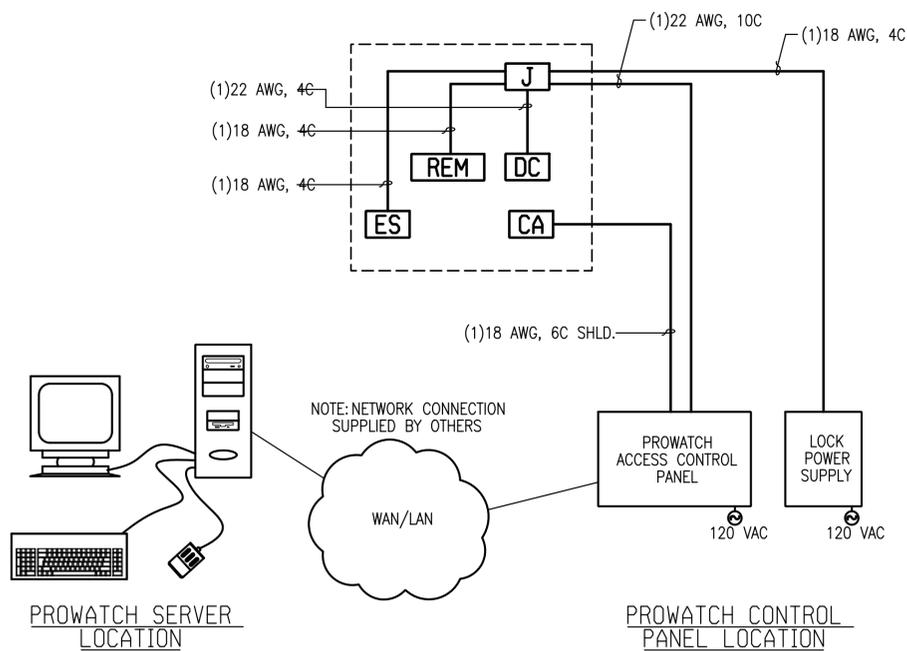


3 RP-40 I-CLASS CARD READER DETAIL
E-605 SCALE: NTS



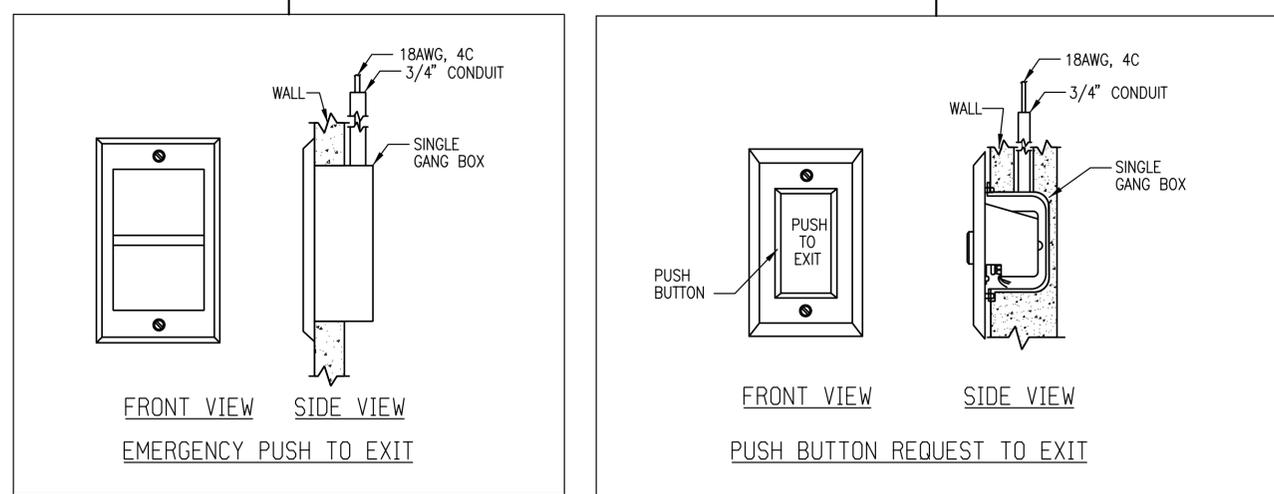
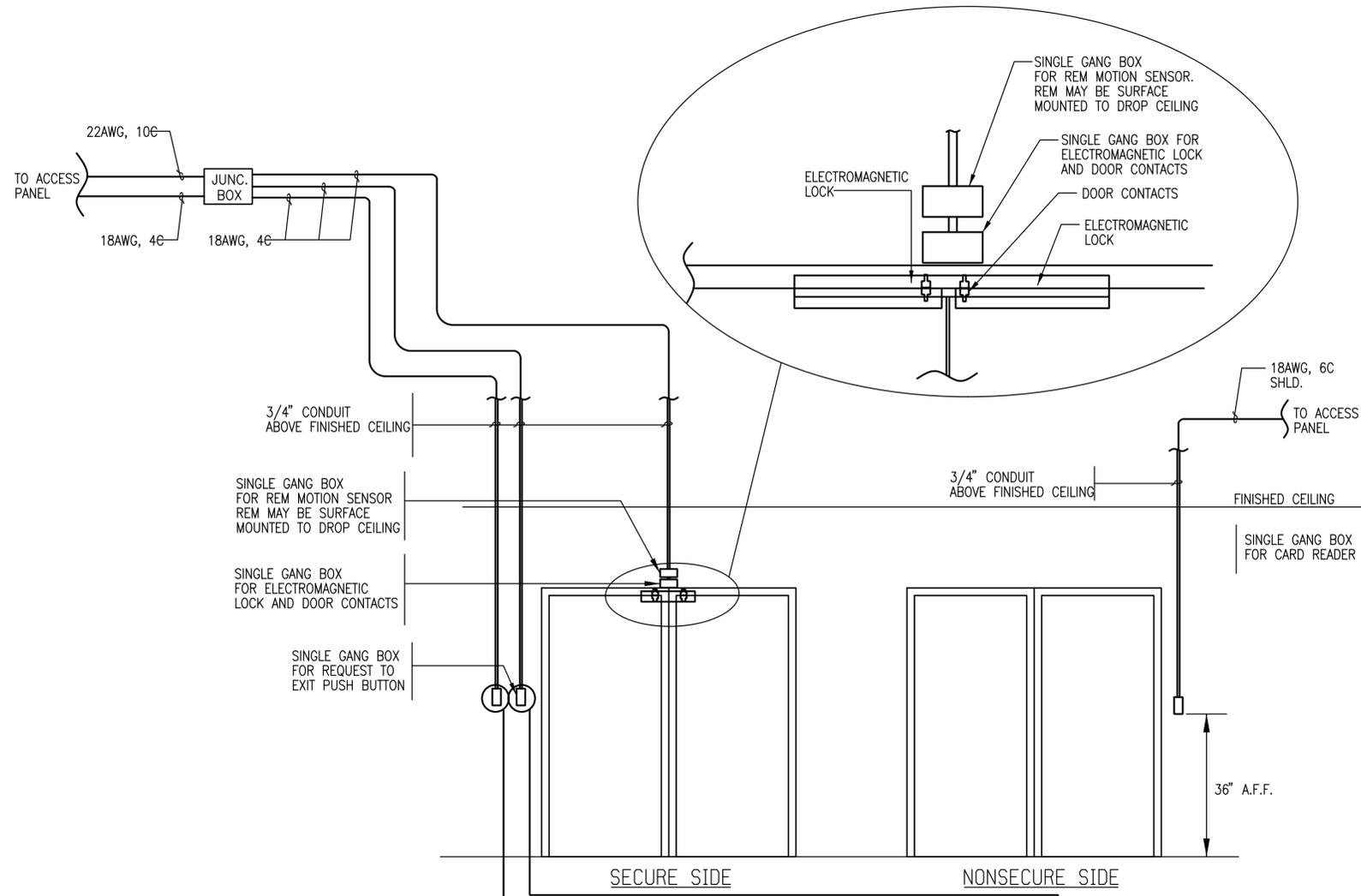
4 TYPICAL ACCESS CONTROL RISER (MAGNETIC LOCK)
E-605 SCALE: NTS

ACCESS CONTROL WIRING		
CARD READER	CA	18AWG, 6C SHLD
REQUEST TO EXIT MOTION	REM	18AWG, 4C
ELECTRONIC STRIKES	ES	18AWG, 4C
PUSH TO EXIT BUTTON	PE	18AWG, 4C
MAGNETIC LOCK	ML	18AWG, 4C
DOOR CONTACT	DC	22AWG, 4C
DOOR RELEASE	DR	18AWG, 4C



5 TYPICAL ACCESS CONTROL RISER (ELECTRONIC STRIKE)
E-605 SCALE: NTS

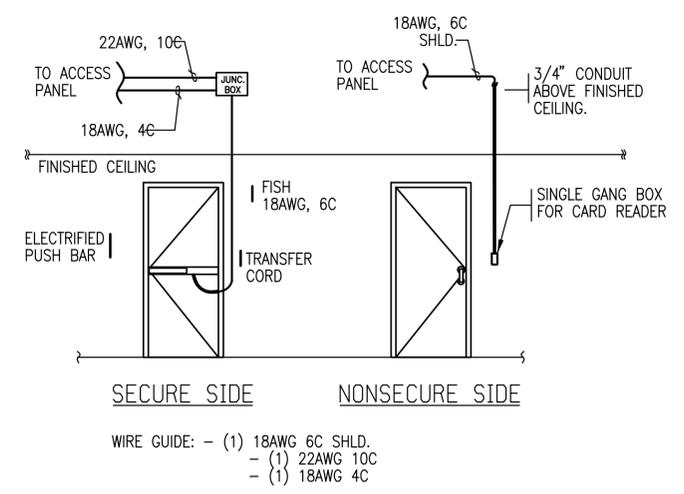
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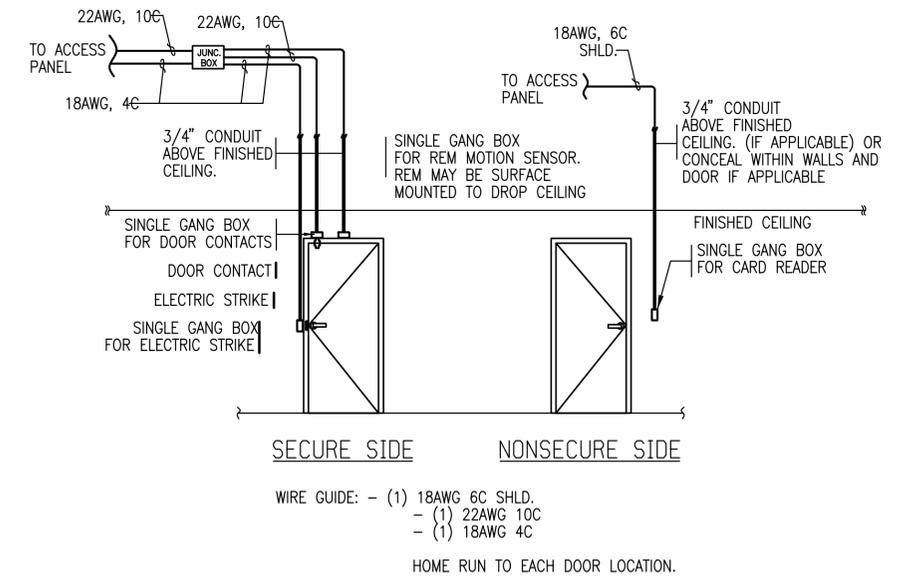
NOTE: AN EMERGENCY PUSH TO EXIT MAY BE REQUIRED BY THE A.H.J.

WIRE GUIDE: - (1) 18AWG 6C SHLD.
 - (1) 22AWG 10C
 - (1) 18AWG 4C
 HOME RUN TO EACH DOOR LOCATION.

1 TYPICAL DOOR WITH ELECTROMAGNETIC LOCK AND 1 READER
 E-606 SCALE: NTS



2 TYPICAL DOOR W/ ADVANTECH PROVIDED ELECTRIFIED PUSH BAR
 E-606 SCALE: NTS

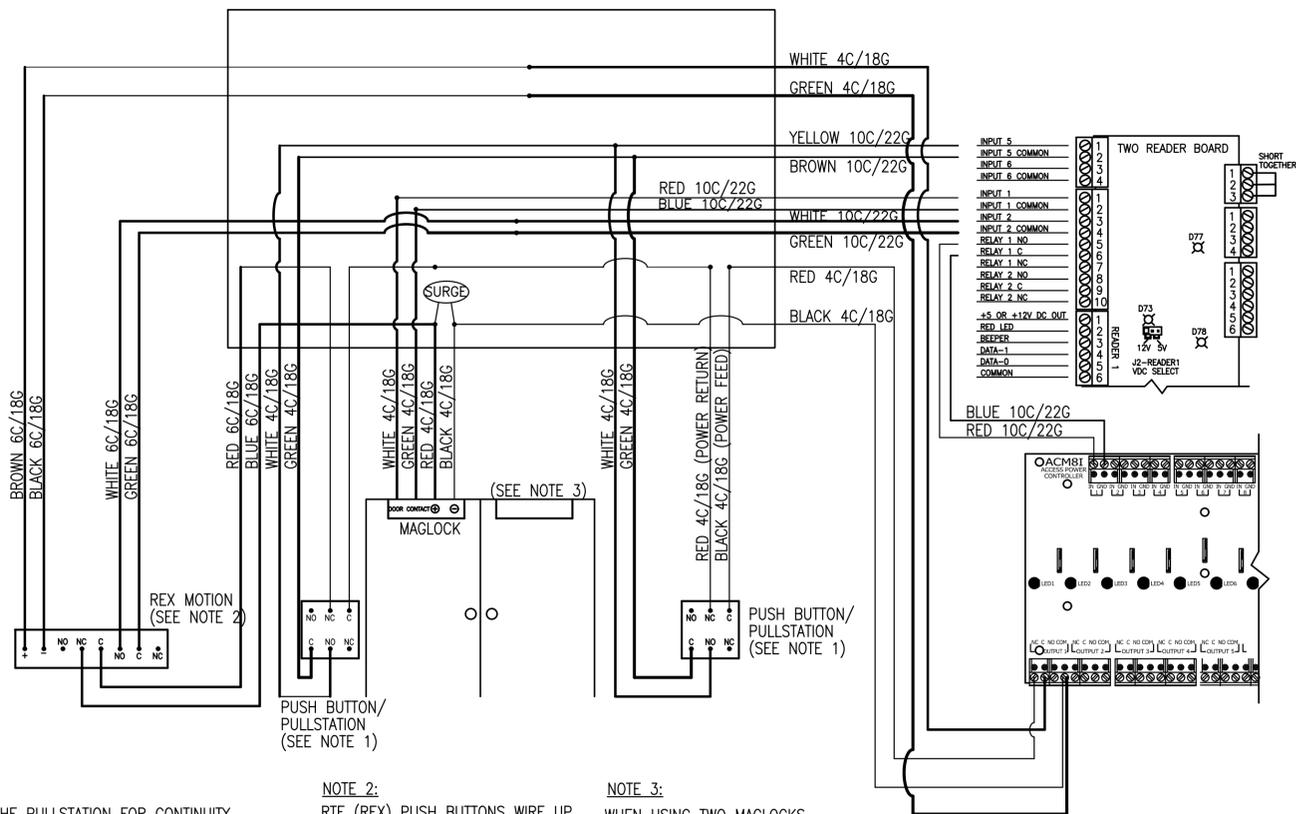


3 TYPICAL DOOR W/ ELECTRIC STRIKE
 E-606 SCALE: NTS

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ADDENDUMS / REVISIONS	

CONTRACT T200612502	BRIDGE NO.
COUNTY SUSSEX	DESIGNED BY: MSM
	CHECKED BY: AP



NOTE 1:
METER THE PULLSTATION FOR CONTINUITY.

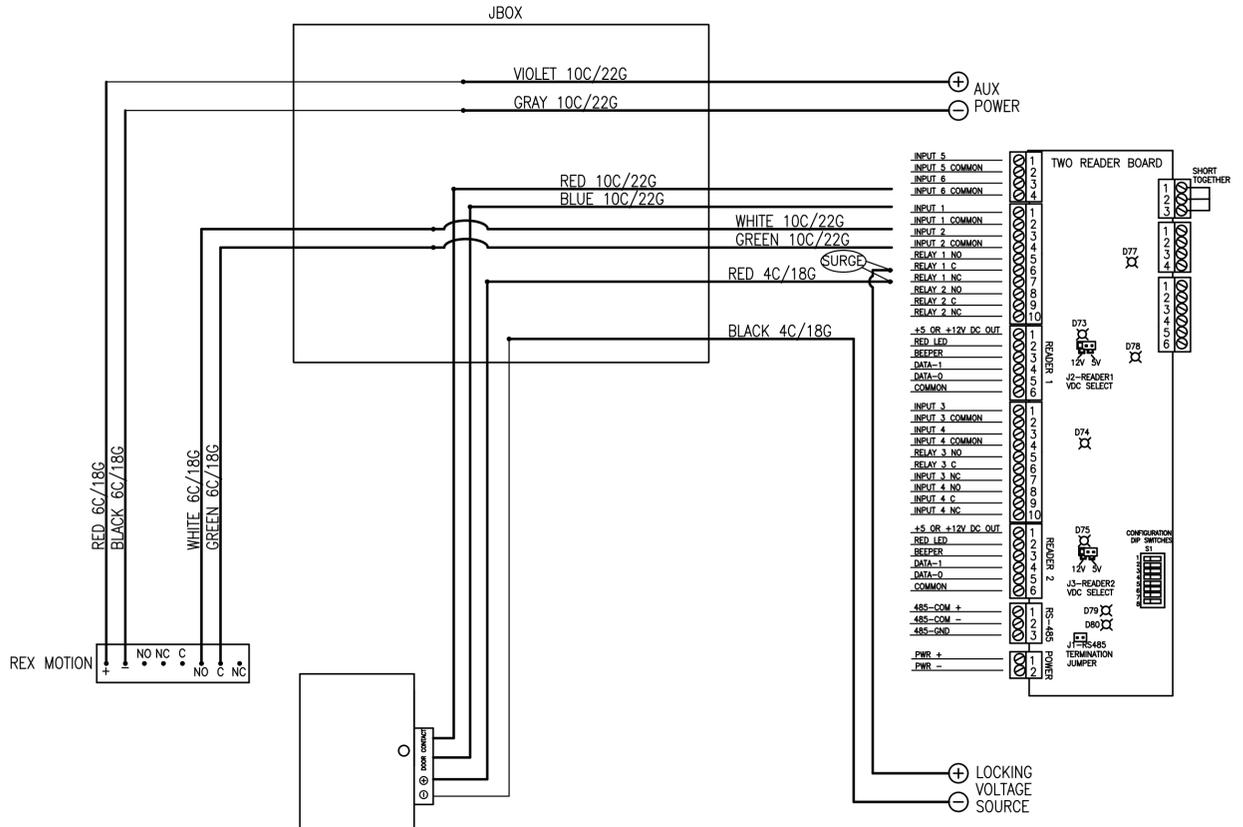
THE SIDE THAT READS CONTINUITY WHEN THE PULLSTATION IS CLOSED, IS FOR THE MAGLOCK POWER (RED & BLACK).

THE SIDE THAT READS CONTINUITY WHEN THE PULLSTATION IS OPEN, IS FOR THE PULLSTATION MONITOR INPUT.

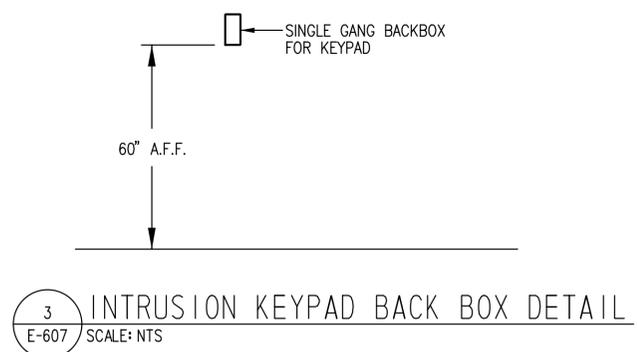
NOTE 2:
RTE (REX) PUSH BUTTONS WIRE UP THE SAME WAY, THEY ONLY DO NOT REQUIRE AUX POWER TO DEVICE.

NOTE 3:
WHEN USING TWO MAGLOCKS, PARALLEL THE POWER TO THE LOCKS & SERIES THE DOOR CONTACTS ON THE WHITE & GREEN.

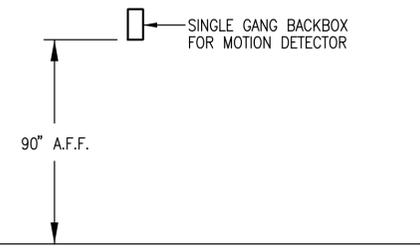
1 ACM TYPICAL MAGLOCK WIRING DETAIL
E-607 SCALE: NTS



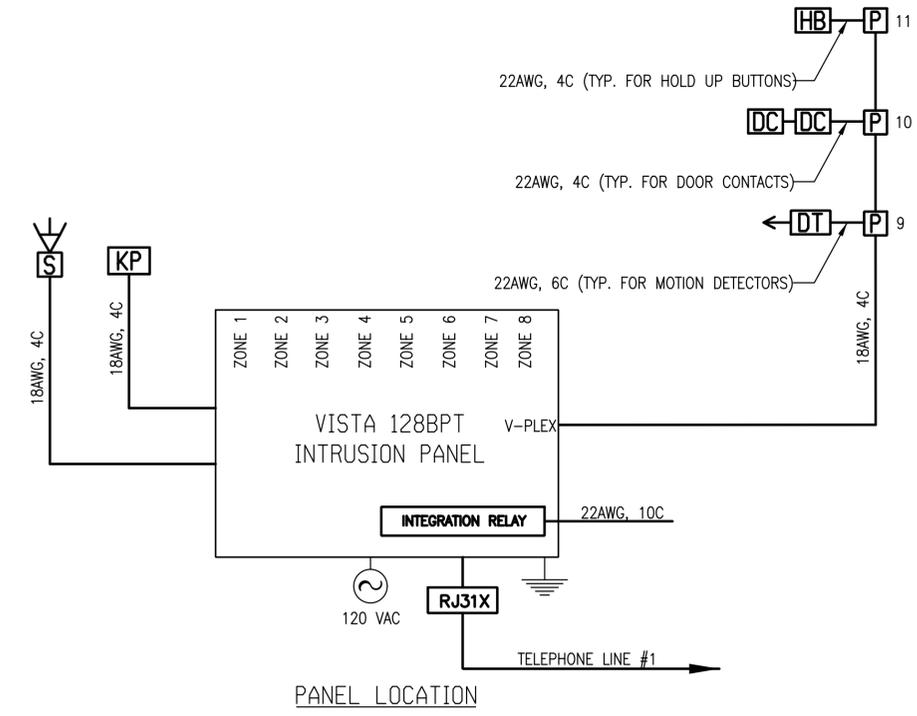
2 NON-ACM TYPICAL ELECTRONIC STRIKE WIRING DETAIL
E-607 SCALE: NTS



3 INTRUSION KEYPAD BACK BOX DETAIL
E-607 SCALE: NTS



4 WALL-MOUNT MOTION DETECTOR BACK BOX DETAIL
E-607 SCALE: NTS



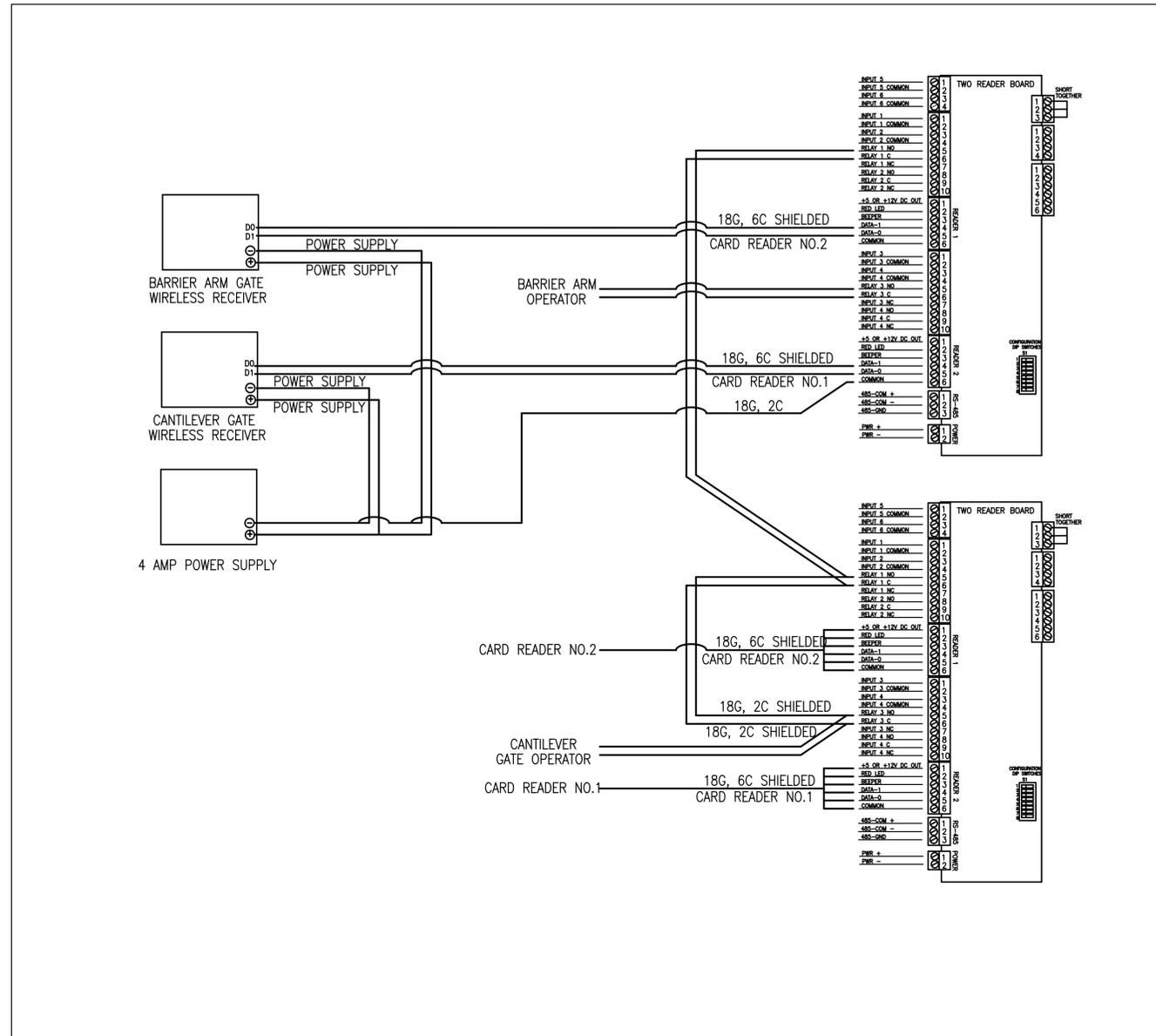
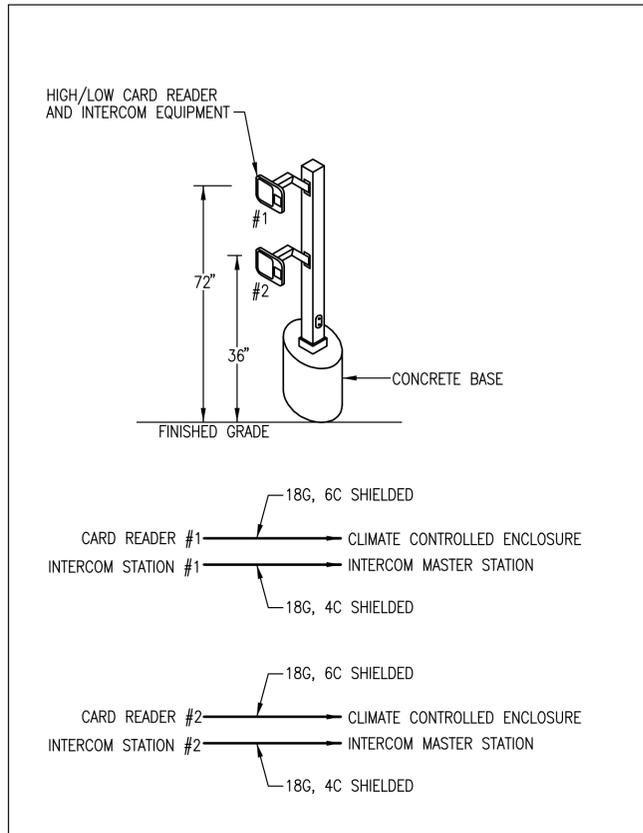
5 INTRUSION DETECTION SYSTEM
E-607 SCALE: NTS

INTRUSION DETECTION	
KEYPAD	KP
POINT MODULE	P
DOOR CONTACT	DC
MOTION DETECTOR	DT
INTRUSION SIREN	S
KEYPAD	HB

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ADDENDUMS / REVISIONS

CONTRACT T200612502	BRIDGE NO.
COUNTY SUSSEX	DESIGNED BY: MSM
	CHECKED BY: AP



1 GATE OPERATOR WIRING DIAGRAM
E-609 SCALE: NTS

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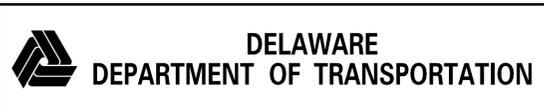
LIGHTING FIXTURE SCHEDULE

FIX. TYPE	DESCRIPTION	MOUNTING	LAMPS			VOLTS	MANUFACTURER AND CATALOG NUMBER	REMARKS
			NO.	WATTS	TYPE			
A	2' X 4' ENERGYMAX INTERSECT FULL DISTRIBUTION RECESSED ARCHITECTURAL LUMINAIRE WITH 2 X 6 CELL MATTE WHITE LOUVER	RECESSED	2	32	T8	277	COLUMBIA LIGHTING EMI24-232G-E104U	
B	4' LINEAR FLUORESCENT, FROSTED ACRYLIC LENS, CORROSION RESISTANCE STEEL HOUSING, DIMMABLE	SURFACE	2	32	T8	277	BARTCO IPR8MS2UISFSMWH	
C	4' PREMIUM TURRET INDUSTRIAL FLUORESCENT FIXTURE	SUSPENDED	2	32	T8	277	COLUMBIA LIGHTING IC4-232-ST-EUICFC	
D	4' PREMIUM INDUSTRIAL FLUORESCENT FIXTURE	SUSPENDED	2	32	T8	277	COLUMBIA LIGHTING KL4-232-ST-E-U	
E	6" COMPACT FLUORESCENT DOWN LIGHT, PRISMATIC GLASS LENSE, WHITE PAINTED RELECTOR	RECESSED	1	26	26TRT	277	GOTHAM LGF1/26TRT6RWT73MVOLT	
F	HIGH BAY LED, SPECULAR REFLECTOR AND CLEAR CURVED ACRYLIC LENS	PENDANT	-	146	LED	277	DIALIGHT HB1C4N-LM79	MOUNT AT 25' AFF
G	2' X 4' SPECIFICATION GRADE STATIC TROFFER WITH ACRYLIC PRISMATIC PATTERN 12 LENS	RECESSED	2	32	T8	277	COLUMBIA LIGHTING 4PS24-232G-FSA12-EU	
H	4'LONG X 4"X5" SLIM WALL MOUNT LIGHT WITH OPAL ACRYLIC LENS	WALL	2	32	T8	277	COLUMBIA LIGHTING W4-232-EU	
J	4' FLOURESCENT, ENCLOSED AND GASKETED FIBERGLASS INDUSTRIAL FIXTURE WITH CLEAR ACRYLIC CREPE LENS, UL LISTED FOR WET LOCATIONS.	WALL	3	32	T8	277	COLUMBIA LIGHTING FNP4-332-EU2H3S	MOUNT AT 12' AFF
K	DESIGNER EMERGENCY LIGHT	SURFACE	2	12	LED	277	Dual Light CV2NI	
K2	HIGH CAPACITY EMERGENCY LIGHTING UNIT, UL LISTED FOR DAMP LOCATIONS	SURFACE	2	56	LED	277	Dual Light LM56NDI	
L	(2) HEAD LED AREA LUMINAIRE, WIDE THROW DISTRIBUTION, ENERGY EFFICIENT, BLACK FINISH.	POLE	100C	436	LED	277	LITHONIA DSX2 LED 100C 700 40K T5W MVOLT SPA DBLXD	PROVIDE WITH INTERNAL PHOTOCELL
M	LED AREA LUMINAIRE, FORWARD THROW MEDIUM DISTRIBUTION, ENERGY EFFICIENT, BLACK FINISH.	POLE	100C	218	LED	277	LITHONIA DSX2 LED 100C 700 40K T4M MVOLT SPA DBLXD	PROVIDE WITH INTERNAL PHOTOCELL
N	LED AREA LUMINAIRE, FORWARD THROW MEDIUM DISTRIBUTION, ENERGY EFFICIENT, BLACK FINISH.	POLE	80C	37	LED	277	LITHONIA DSX2 LED 80C 530 40K T4M MVOLT SPA DBLXD	PROVIDE WITH INTERNAL PHOTOCELL
P	LED AREA LUMINAIRE, MEDIUM THROW DISTRIBUTION, HOUSE-SIDE SHIELD, ENERGY EFFICIENT, BLACK FINISH.	POLE	100C	218	LED	277	LITHONIA DSX2 LED 100C 700 40K T3M MVOLT SPA HS DBLXD	PROVIDE WITH INTERNAL PHOTOCELL
R	LED AREA LUMINAIRE, SHORT THROW DISTRIBUTION, HOUSE-SIDE SHIELD, ENERGY EFFICIENT, BLACK FINISH.	POLE	80C	142	LED	277	LITHONIA DSX2 LED 80C 530 40K T1S MVOLT SPA HS DBLXD	PROVIDE WITH INTERNAL PHOTOCELL
S	LED AREA LUMINAIRE, MEDIUM THROW DISTRIBUTION, ENERGY EFFICIENT, BLACK FINISH.	WALL	30C	54	LED	277	LITHONIA DSXW2 LED 30C 530 40K T4M MVOLT DBLXD	PROVIDE WITH INTERNAL PHOTOCELL
T	LED AREA LUMINAIRE, REGULAR THROW DISTRIBUTION, ENERGY EFFICIENT, WHITE FINISH.	SURFACE	30C	67	LED	277	LITHONIA DSXSC LED 30C 700 40K T5R MVOLT DWHXD	CONNECT TO FIELD LOCATED EXTERNAL PHOTOCELL
U	LED FLOOD LIGHT LUMINAIRE, HORIZONTAL FLOOD DISTRIBUTION, SINGLE "COB" ENGINE, ENERGY EFFICIENT, BLACK FINISH.	POLE	COB	21	LED	277	LITHONIA DSXF1-LED-1-A530/40K-HMF-MVOLT-THK-PE-DBLXD	PROVIDE WITH INTERNAL PHOTOCELL
W	LED WALL LUMINAIRE, MEDIUM DISTRIBUTION, SINGLE ENGINE, ENERGY EFFICIENT, BLACK FINISH.	WALL	10C	39	LED	277	LITHONIA LIGHTING TWH LED 10C T3M MVOLT PE DBLXD	PROVIDE WITH INTERNAL PHOTOCELL
W2	LED WALL LUMINAIRE, MEDIUM DISTRIBUTION, DOUBLE ENGINE, ENERGY EFFICIENT, BLACK FINISH.	WALL	20C	72	LED	277	LITHONIA LIGHTING TWH LED 20C T3M MVOLT PE DBLXD	PROVIDE WITH INTERNAL PHOTOCELL
W3	LED WALL LUMINAIRE, MEDIUM DISTRIBUTION, TRIPLE ENGINE, ENERGY EFFICIENT, BLACK FINISH.	WALL	30C	104	LED	277	LITHONIA LIGHTING TWH LED 30C T3M MVOLT PE DBLXD	PROVIDE WITH INTERNAL PHOTOCELL
X	CAST ALUMINUM LED EXIT SIGN WITH RED LETTERING	SURFACE	1	3.8	LED	277	DUAL LITE SESRWEI	
X1	CAST ALUMINUM LED EXIT SIGN WITH RED LETTERING, UL LISTED FOR DAMP LOCATIONS	SURFACE	1	7.22	LED	277	DUAL LITE LED2EMRWW	
X2	CAST ALUMINUM LED EXIT SIGN WITH RED LETTERING, UL LISTED FOR WET LOCATIONS	SURFACE	1	3.8	LED	277	DUAL LITE LN4XRWE	

- SPECIFIC NOTES:**
- 1 MOUNT FIXTURE TO 40FT, DUAL LUMINAIRE, SITE POLE RATED FOR 140MPH. LITHONIA CAT* (6)RTS 40 9-0B DM28 FBC VD-SNAKE DDB/GALV L/AB.
 - 2 MOUNT FIXTURE TO 40FT, SINGLE LUMINAIRE, SITE POLE RATED FOR 140MPH. LITHONIA CAT* (5)RTS 40 9-0B DM19 FBC VD-SNAKE DDB/GALV L/AB.
 - 3 STEM MOUNTED TO RGS PIPE 12 INCHES ABOVE FINISHED GRADE.

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2
2
2
2
3

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ADDENDUMS / REVISIONS	

**DELAWARE TRANSIT CORPORATION
LEWES PARK AND RIDE
AND MAINTENANCE FACILITY**

CONTRACT T200612502	BRIDGE NO.	
COUNTY SUSSEX	DESIGNED BY: MSM	
	CHECKED BY: AP	

ELECTRICAL PANEL SCHEDULES
SHEET NO. 181
TOTAL SHTS. 185

E-701

PANELBOARD MDPN

600 AMPS BUS													600 AMP MLO					
480Y/277 VOLTS													3 PHASE, 4 WIRE + GROUND					
SURFACE MOUNTED													PANEL LOCATION - ELEC 116					
35, 000 RMS													NEMA ENCLOSURE: TYPE 1					
LOAD SERVED	LOAD (AMPS)			CB TRIP	WIRE SIZE	CKT	PHASE			CKT	WIRE SIZE	CB TRIP	LOAD (AMPS)			LOAD SERVED		
	A	B	C				A	B	C				A	B	C			
116 XFMR T1 (PNL RSP)	58			110	SEE SLD	1				2	70	30			116 XFMR T2 (PNL RPN)			
		58				3				4		30						
			58			5				6			30					
	27			70	SEE SLD	7				8	100	13			116 PNL LPN			
116 XFMR T3 (PNL MLN)		27				9				10			13					
			27			11				12				13				
XFMR T (PNL TRAILER)	78			100	SEE SLD	13				14	45	32.4			NORTH ROOF RTU-1			
SPACE		78				15				16	8	32.4						
			0			17				18			32.4					
				15		19				20					SPARE			
SPARE						21				22	15							
						23				24								
	7.6			20	12	25				26	15	1.1			118 HWCP-1			
118 DWBP-1		7.6				27				28	12		1.1					
			7.6			29				30				1.1				
	3.4			20	10	31				32								
DIESEL FUEL PUMP		3.4				33				34	20				SPARE			
			3.4			35				36								
	3.4			20	10	37				38	400	244			PNL MDPS			
GAS FUEL PUMP		3.4				39				40		246						
			3.4			41				42			246					
TOTAL	177	177	99									321	323	323	TOTAL			
TOTAL CONNECTED AMPS:													A= 498	B= 500	C= 422			

PANELBOARD RSP

225 AMPS BUS													225 AMP MCB					
208Y/120 VOLTS													3 PHASE, 4 WIRE + GROUND					
SURFACE MOUNTED													PANEL LOCATION - 116 ELEC					
10, 000 RMS													NEMA ENCLOSURE: TYPE 1					
LOAD SERVED	LOAD (AMPS)			CB TRIP	WIRE SIZE	CKT	PHASE			CKT	WIRE SIZE	CB TRIP	LOAD (AMPS)			LOAD SERVED		
	A	B	C				A	B	C				A	B	C			
FORNT PARKING LOT CCTV CAMERAS	1			20	10	1				2	10	20	16		GENERATOR BLOCK HEATER			
REAR PARKING LOT CCTV CAMERAS		0.5		20	10	3				4	12	20		5	GENERATOR BATTERY CHARGER			
SPARE				20		5				6	12	20		4	GENERATOR LIGHTS AND REC			
SPARE				20		7				8	4	40	32		PV STATION #1			
GATE ARM NORTH		5.4		20	8	9				10			32					
GATE ARM SOUTH			5.4	20	10	11				12	4	40		32	PV STATION #1			
	4.8					13				14	4	40	32					
MOTORIZED GATE FRONT		4.8		20	8	15				16	4	40		32	PV STATION #2			
			4.8			17				18				32				
	4.8					19				20	4	40	32		PV STATION #2			
MOTORIZED GATE REAR		4.8		20	8	21				22				32				
			4.8			23				24	12	20		2	FUEL DISP #1 DIESEL			
DIESEL TANK ALARMS/MONITORS	2			20	10	25				26	12	20	2		FUEL DISP #2 DIESEL/GAS			
GAS TANK ALARMS/MONITORS		2		20	10	27				28	12	20		2	FUEL DISP #3 GAS			
SPARE				20		29				30	12	20		2	FUEL DISP #4 DIESEL			
SPARE				20		31				32	12	20	2		FUEL DISP #5 DIESEL/GAS			
SPARE				20		33				34	12	20		2	FUEL DISP #6 GAS			
SPARE				20		35				36	10	20		5	FUEL MANAGEMENT PANEL #1			
SPARE				20		37				38	10	20	5		FUEL MANAGEMENT PANEL #2			
SPARE				20		39				40		20			SPARE			
SPARE				20		41				42		20			SPARE			
TOTAL	12.6	17.5	15										121	105	77	TOTAL		
TOTAL CONNECTED AMPS:													A= 134	B= 123	C= 92			

PANELBOARD RPN

225 AMPS BUS													150 AMP MCB					
208Y/120 VOLTS													3 PHASE, 4 WIRE + GROUND					
SURFACE MOUNTED													PANEL LOCATION - 110 ELEC					
10, 000 RMS													NEMA ENCLOSURE: TYPE 1					
200% NEUTRAL BUS																		
LOAD SERVED	LOAD (AMPS)			CB TRIP	WIRE SIZE	CKT	PHASE			CKT	WIRE SIZE	CB TRIP	LOAD (AMPS)			LOAD SERVED		
	A	B	C				A	B	C				A	B	C			
REC EXTERIOR	7.5			20	8	1				2	12	20	1.2		REC 105			
REC EXTERIOR		6.0		20	8	3				4	12	20		1.2	REC 105			
REC RM 101			10.5	20	12	5				6	12	20		1.2	REC 104			
REC 102	6.0			20	12	7				8	12	20	1.2		REC 104			
REC 101, 102, 103		6.0		20	12	9				10	12	20		10.0	VENDING 112 DRINK			
REC 102			6.0	20	12	11				12	12	20		10.0	VENDING 112 DRINK			
REC 105, 108, 109, 110	9.0			20	12	13				14	12	20	3.0		VENDING 112 SNACK			
REC 104,107, 112		6.0		20	12	15				16	12	20		12.0	REC COUNTER 112 MICRO			
REC 112			4.6	20	12	17				18	12	20		1.2	REC COUNTER 112			
REC 114	7.5			20	12	19				20	12	20	14.0		REC COUNTER 112 COFFEE			
REC SECURITY EQUIP/MONITORS 113		6.0		20	12	21				22	12	20		10.0	REC REFRIG 112			
REC 113			4.6	20	12	23				24	10	30		18.0	REC RACK 117			
REC 113	6.0			20	12	25				26	12	20	6.0		REC 117			
REC 116		1.2		20	12	27				28	12	20		6.0	REC 117			
REC 118			6.0	20	12	29				30	12	20		6.0	REC 117			
MOTORIZED DOOR 107	5.0			20	12	31				32	12	20	3.0		REC 117			
SPARE				20		33				34	12	20		1.0	ACCESS CONTROL DOOR			
SPARE				20		35				36		20			SPARE			
SPARE				20		37				38		20			SPARE			
SPARE				20		39				40		20			SPARE			
SPARE				20		41				42		20			SPARE			
TOTAL	41.0	25.2	31.7										28.4	40.2	36.4	TOTAL		
SECTION 1 TOTAL CONNECTED AMPS:													A= 69	B= 65	C= 68			

PANELBOARD MLN

100 AMPS BUS													100 AMP MCB					
208Y/120 VOLTS													3 PHASE, 4 WIRE + GROUND					
SURFACE MOUNTED													PANEL LOCATION - 116 ELEC					
10, 000 RMS													NEMA ENCLOSURE: TYPE 1					
LOAD SERVED	LOAD (AMPS)			CB TRIP	WIRE SIZE	CKT	PHASE			CKT	WIRE SIZE	CB TRIP	LOAD (AMPS)			LOAD SERVED		
	A	B	C				A	B	C				A	B	C			
SPARE				20		1				2	12	20	5.8		NORTH ROOF EF-5 (105)			
103 CUH-1		6.2		20	12	3				4		20			SPARE			
107 CUH-2			6.2	20	12	5				6	12	20		4.7	106 ELEC WATER COOLER			
111B CUH-3	6.2			20	12	7				8	12	20	9.8		HWP-1 (118)			
116 UH-1, 118 UH-2		0.3		20	12	9				10	12	20		9.8	HWP-2 (118)			
SPARE				20		11				12	12	20		2.0	COMP. DRY PIPE SYSTEM			
ROOF/117 SPLIT A/C UNIT	25.0			40	8	13				14		20	4.0		NAC			
ACU-1/ACCU-1		25.0				15				16		20			SPARE			
NORTH ROOF REC (HVAC)			4.5	20	12	17				18		20			SPARE			
NORTH ROOF EF-1 (116)	5.8			20	12	19				20		20			SPARE			
NORTH ROOF EF-2 (117)		5.8		20	12	21				22		20			SPARE			
SPARE				20		23				24		20			SPARE			
118 B-1,B-2	3.0			20	12	25				26		20			SPARE			
118 BP-1		2.8		20	12	27				28		20			SPARE			
118 BP-2			2.8	20	12	29				30		20			SPARE			
118 DWH-1	1.5			20	12	31				32		20			SPARE			
118 TRAP PRIMER PNL		2.0		20	12	33				34		20			SPARE			
118 ATC PNL			10.0	20	12	35				36		20			SPARE			
SPARE				20		37				38		20			SPARE			
SPARE				20		39				40		20			SPARE			
SPARE				20		41				42		20			SPARE			
TOTAL	41.5	42.1	23.5										19.6	9.8	6.7	TOTAL		
TOTAL CONNECTED AMPS:													A= 61	B= 52	C= 30			

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PANELBOARD LPN

22,000 RMS 100 AMPS BUS 100 AMP MCB
 NEMA ENCLOSURE: TYPE 1 480Y/277 VOLTS 3 PHASE, 4 WIRE + GROUND
 SURFACE MOUNTED PANEL LOCATION - 116 ELEC

LOAD SERVED	LOAD (AMPS)			CB TRIP	WIRE SIZE	CKT	PHASE			CKT	WIRE SIZE	CB TRIP	LOAD (AMPS)			LOAD SERVED	
	A	B	C				A	B	C				A	B	C		
FRONT PARKIN LOT SOUTH LIGHTING	5.2			20	8	1				2	8	20	3.8			EXTERIOR N. AND S. BUILDING LGTS	
FRONT PARKIN LOT NORTH LIGHTING		3.7		20	10	3				4	10	20		5.4		CANOPY LIGHTING	
REAR PARKIN LOT SOUTH LIGHTING			2.9	20	10	5				6	12	20			4.9	INTERIOR LIGHTING	
REAR PARKIN LOT NORTH LIGHTING	1.6			20	12	7				8	12	20	5.4			INTERIOR LIGHTING	
EXIT SIGNS/EMERGENCY LIGHTING		1.0		20	12	9				10	12	20		2.5		INTERIOR LIGHTING	
SPARE				20		11				12	12	20			4.6	INTERIOR LIGHTING	
SPARE				20		13				14		20				SPARE	
SPARE				20		15				16		20				SPARE	
SPARE				20		17				18		20				SPARE	
SPARE				20		19				20		20				SPARE	
SPARE				20		21				22		20				SPARE	
SPARE				20		23				24		20				SPARE	
SPARE				20		25				26		20				SPARE	
SPARE				20		27				28		20				SPARE	
SPARE				20		29				30		20				SPARE	
TOTAL	6.81	4.67	2.87										9.2	7.85	9.45	TOTAL	
TOTAL CONNECTED AMPS:							A= 16			B= 12.5			C= 12.3				

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ADDENDUMS / REVISIONS

DELAWARE TRANSIT CORPORATION
LEWES PARK AND RIDE
AND MAINTENANCE FACILITY

CONTRACT	BRIDGE NO.
T200612502	
COUNTY	DESIGNED BY: MSM
SUSSEX	CHECKED BY: AP

ELECTRICAL
PANEL SCHEDULES

E-703

SHEET NO.

183

TOTAL SHTS.

185

PANELBOARD MDPS

600 AMPS BUS															400 AMP MCB					
35, 000 RMS															480Y/277 VOLTS			3 PHASE, 4 WIRE + GROUND		
NEMA ENCLOSURE: TYPE 1															SURFACE MOUNTED			PANEL LOCATION - ELEC 202		
LOAD SERVED	LOAD (AMPS)			CB TRIP	WIRE SIZE	CKT	PHASE			CKT	WIRE SIZE	CB TRIP	LOAD (AMPS)			LOAD SERVED				
	A	B	C				A	B	C				A	B	C					
202 PNL S	123			250	SEE SLD	1			2	SEE SLD	70	43	43		202 XFMR T5 (PNL MLS)					
		123				3			4											
			123			5			6				43							
SOUTH ROOF HV-1	30.4			45	8	7			8						SPARE (FUTURE SOUTH ROOF HV-2)					
		30.4				9			10	10	30									
			30.4			11			12											
202 HWP-3	2.1			15	12	13			14		15				202 HWP-4 *					
		2.1				15			16		15									
			2.1			17			18											
SPARE				15		19			20		15	4.8	4.8		217 EF-6 (RROF)					
						21			22		12									
						23			24				4.8							
217 EF-7 (ROOF)	4.8			15	12	25			26		15				SPARE (FUTURE 217 EF-9)					
		4.8				27			28											
			4.8			29			30											
SPARE (FUTURE 217 EF-10)				15		31			32		50	21.0			215 AC-1					
						33			34	10	50		21.0							
						35			36				21.0							
SPARE				15		37			38		15				SPARE					
						39			40											
						41			42											
218 EF-8 (ROOF)	1.6			15	12	43			44	SEE SLD	100	10.9			PANEL FEED "LPS"					
		1.6				45			46				12.6							
			1.6			47			48					13.1						
SPARE				20		49			50		20				SPARE					
						51			52											
						53			54											
SPARE				20		55			56		20				SPARE					
						57			58											
						59			60											
SPARE				20		61			62		20				SPARE					
						63			64											
						65			66											
SPARE				20		67			68		20				SPARE					
						69			70											
						71			72											
TOTAL	162.1	162.1	162.1									79.7	81.4	81.9	TOTAL					
TOTAL CONNECTED AMPS: A= 242 B= 243 C= 244																				

PANELBOARD S

400 AMPS BUS															250 AMP MCB					
22, 000 RMS															480Y/277 VOLTS			3 PHASE, 4 WIRE + GROUND		
NEMA ENCLOSURE: TYPE 1															SURFACE MOUNTED			PANEL LOCATION - 110 ELEC		
LOAD SERVED	LOAD (AMPS)			CB TRIP	WIRE SIZE	CKT	PHASE			CKT	WIRE SIZE	CB TRIP	LOAD (AMPS)			LOAD SERVED				
	A	B	C				A	B	C				A	B	C					
211 10" BUFFER/GRINDER SH213	4.8			15	12	1			2		60	21.0			219 WASHER CW101					
		4.8				3			4	3			21.0							
			4.8			5			6					21.0						
211 20" DRILL PRESS SH237	3.0			15	12	7			8						SPARE					
		3.0				9			10		60									
			3.0			11			12											
211 20" 50 TON PRESS SH255	3.4			15	12	13			14		20	26.0			PARTS WASHER (250) CC308					
		3.4				15			16	6	20		26.0							
			3.4			17			18				26.0							
SPARE				15		19			20		20				SPARE					
						21			22											
						23			24				0.0							
217 LIFT VL850 NO.1 CP	10.0			20	10	25			26		20				SPARE					
		10.0				27			28		20				SPARE					
			10.0			29			30		20				SPARE					
SPARE (FUTURE 217 LIFT VL850 NO.2)				20	10	31			32		20				SPARE					
						33			34		20				SPARE					
						35			36		20				SPARE					
SPARE				20		37			38			55								
SPARE				20		39			40	4	110		55		45KVA XFMR T-2 (PNL SR)					
SPARE				20		41			42				55							
TOTAL	21.2	21.2	21.2									102.0	102.0	102.0	TOTAL					
TOTAL CONNECTED AMPS: A= 123 B= 123 C= 123																				

PANELBOARD LPS

100 AMPS BUS															100 AMP MCB					
22, 000 RMS															480Y/277 VOLTS			3 PHASE, 4 WIRE + GROUND		
NEMA ENCLOSURE: TYPE 1															SURFACE MOUNTED			PANEL LOCATION - 202 ELEC		
LOAD SERVED	LOAD (AMPS)			CB TRIP	WIRE SIZE	CKT	PHASE			CKT	WIRE SIZE	CB TRIP	LOAD (AMPS)			LOAD SERVED				
	A	B	C				A	B	C				A	B	C					
INTERIOR LIGHTING	6.0			20	12	1			2	10	20	3.0			EXTERIOR BUILDING LGTS					
INTERIOR LIGHTING		6.3		20	12	3			4	10	20		6.3		WASH BAY AND CLOSET LIGHTING					
INTERIOR LIGHTING			5.3	20	12	5			6	10	20			7.8	MAINT. BAYS LIGHTING					
EXIT SIGNS/EMERGENCY LIGHTING	0.2			20	12	7			8	12	20	1.6			MEZZANINE LIGHTING					
EXIT SIGNS/EMERGENCY LIGHTING		0.1		20	12	9			10		20				SPARE					
SPARE				20		11			12		20				SPARE					
SPARE				20		13			14		20				SPARE					
SPARE				20		15			16		20				SPARE					
SPARE				20		17			18		20				SPARE					
TOTAL	6.22	6.33	5.34									4.63	6.25	7.8	TOTAL					
TOTAL CONNECTED AMPS: A= 10.9 B= 12.6 C= 13.1																				
TOTAL CONNECTED KVA: 3.01 B= 3.48 C= 3.64																				
PANEL TOTAL CONNECTED KVA:																				
PANEL TOTAL CONNECTED AMPS:																				

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ADDENDUMS / REVISIONS

DELAWARE TRANSIT CORPORATION
LEWES PARK AND RIDE
AND MAINTENANCE FACILITY

CONTRACT
T200612502
BRIDGE NO.
DESIGNED BY: MSM
COUNTY
SUSSEX
CHECKED BY: AP

ELECTRICAL
PANEL SCHEDULES

E-704
SHEET NO.
184
TOTAL SHTS.
185

PANELBOARD MLS (SECTION 1)

225 AMPS BUS													150 AMP MCB					
10,000 RMS													3 PHASE, 4 WIRE + GROUND					
NEMA ENCLOSURE: TYPE 1													SURFACE MOUNTED			PANEL LOCATION - 116 ELEC FEED-THRU LUGS		
LOAD SERVED	LOAD (AMPS)			CB TRIP	WIRE SIZE	CKT	PHASE			CKT	WIRE SIZE	CB TRIP	LOAD (AMPS)			LOAD SERVED		
	A	B	C				A	B	C				A	B	C			
AC-2 (207)	1.8			15	12	1				2	12	20	3.0			203 UH-3, 202 UH-4, 204 UH-5		
		1.8				3				4	12	20		3.0		205 UH-6, 210 UH-7, 211 UH-8		
ACCU-2 (ROOF)			10.3	20	12	5				6	12	20		3.0		212 UH-9, 215 UH-10, 216 UH-11		
	10.3					7				8	12	20	5.4			216 UH-12, UH-13, UH-14		
SPARE				20		9				10	12	20		6.2		220 UH-15, 217 UH-16, UH-17		
SPARE				20		11				12	12	20		7.8		217 UH-18, UH-19, UH-20		
NORTH ROOF REC (HVAC)	4.5			20	12	13				14	12	20	7.8			217 UH-21, UH-22, UH-23		
SOUTH ROOF EF-3 (202)		5.8		20	12	15				16	12	20		10.4		218 UH-24, UH-25, UH-26, UH-27		
SOUTH ROOF EF-4 (204)			4.4	20	12	17				18		20		6.2		SPARE (FUTURE UH-28,UH-29,UH-30)		
SPARE				20		19				20		20	3.6			SPARE (FUTURE UH-31,UH-32)		
SPARE				20		21				22	12	20		5.4		217 MHR-1, MHR-2		
SPARE				20		23				24		20		5.4		217 MHR-3, MHR-4		
204 B-3,B-4	3.0			20	12	25				26		20	5.4			SPARE (FUTURE MHR-5, 6)		
204 BP-3		2.8		20	12	27				28		20	5.4			SPARE (FUTURE MHR-7, 8)		
204 BP-4			2.8	20	12	29				30		20				SPARE		
204 DWH-2	1.5			20	12	31				32	12	20	5.4			(200) CHU-5		
204 TRAP PRIMER PNL		2.0		20	12	33				34		20		9.8		HWCP-2 (204)		
204 DDC PNL			5.0	20	12	35				36	12	15		1.6		AC-3 (213)		
	6.6			20		37				38		20						
215 AD-1		6.6		20		39				40	12	20		7.1		ACCU-3 (ROOF)		
			6.6	20		41				42		20		7.1				
TOTAL	27.7	19.0	29.1										32.2	47.3	31.1	TOTAL		
SECTION 1 TOTAL CONNECTED AMPS:													A= 60	B= 66	C= 60			

PANELBOARD MLS (SECTION 2)

225 AMPS BUS													MLO					
10,000 RMS													3 PHASE, 4 WIRE + GROUND					
NEMA ENCLOSURE: TYPE 1													SURFACE MOUNTED			PANEL LOCATION - 116 ELEC		
LOAD SERVED	LOAD (AMPS)			CB TRIP	WIRE SIZE	CKT	PHASE			CKT	WIRE SIZE	CB TRIP	LOAD (AMPS)			LOAD SERVED		
	A	B	C				A	B	C				A	B	C			
216 OVERHEAD DOOR	2.4			20	12	43				44		20	3.0			REC 202, 204		
		2.4				45				46		20		8.0		NAC, DAC 202		
217 OVERHEAD DOOR NO.1			2.4	20	12	47				48		20		8.0		FACP 202		
	2.4					49				50		20				SPARE		
217 OVERHEAD DOOR NO.2		2.4		20	12	51				52		20				SPARE		
			2.4			53				54		20				SPARE		
SPARE (FUTURE 217 OVERHEAD DOOR NO.3)	2.4			20		55				56		20				SPARE		
		2.4				57				58		20				SPARE		
SPARE (FUTURE 217 OVERHEAD DOOR NO.4)			2.4	20		59				60		20				SPARE		
	2.4					61				62		20				SPARE		
218 OVERHEAD DOOR NO.1		2.4		20	12	63				64		20				SPARE		
			2.4			65				66		20				SPARE		
218 OVERHEAD DOOR NO.2	2.4			20	12	67				68		20				SPARE		
		2.4				69				70		20				SPARE		
SPARE				20		71				72		20				SPARE		
SPARE				20		73				74		20				SPARE		
SPARE				20		75				76		20				SPARE		
SPARE				20		77				78	10	35				SPARE		
SPARE				20		79				80		35				SPARE		
SPARE				20		81				82	10	35				SPARE		
SPARE				20		83				84		35				SPARE		
TOTAL	12.0	12.0	9.6										3.0	8.0	8.0	TOTAL		
SECTION 2 TOTAL CONNECTED AMPS:													A= 15	B= 20	C= 18			

PANELBOARD SR (SECTION 1)

400 AMPS BUS													250 AMP MCB					
10,000 RMS													3 PHASE, 4 WIRE + GROUND					
NEMA ENCLOSURE: TYPE 1													SURFACE MOUNTED			PANEL LOCATION - 110 ELEC FEED-THRU LUGS		
LOAD SERVED	LOAD (AMPS)			CB TRIP	WIRE SIZE	CKT	PHASE			CKT	WIRE SIZE	CB TRIP	LOAD (AMPS)			LOAD SERVED		
	A	B	C				A	B	C				A	B	C			
217 REC MIG WELDER WF331	42.0			50	8	1				2	8	50				SPARE (FUTURE 217 REC MIG WELDER WF331)		
		42.0				3				4		50						
217 REC MIG WELDER WF331				50	8	5				6	8	50				SPARE (FUTURE 217 REC MIG WELDER WF331)		
						7				8		50						
217 DROP LC251		5.0		25	12	9				10	12	25		5.0		SPARE (FUTURE 217 DROP LC251)		
211 REC			3.0	20	12	11				12	12	20				SPARE (FUTURE REC)		
217 REC	9.0			20	12	13				14	12	20				SPARE (FUTURE REC)		
217 REC		6.0		20	12	15				16	12	20				SPARE (FUTURE REC)		
217 REC			6.0	20	12	17				18	12	20				SPARE (FUTURE REC)		
203 WORKBENCH	16.0			25	12	19				20		20	7.5			REC 205, 206		
203 REC		9.0		25	12	21				22		20				SPARE		
RACK 203			9.0	20		23				24	12	20		5.0		213 LEAK DETECT SYS. FF602		
REC 207	7.5			20		25				26	12	20	5.0			214 FLUID MANAGE SYS. SI200		
REC 210		7.5		20		27				28	12	20		12.5		REC 215		
REC 211 TS215			3.0	20		29				30	12	20		15.0		215 REC OIL FILTER PRESS LC113		
	12.0			20		31				32		20	9.0			REC 215, MEZZ		
211 REC WHEEL BALANCER TS303		12.0		20	12	33				34		20	7.5			REC 214		
			12.0	20		35				36		20		7.5		REC 215		
	10.6			20		37				38		20	7.5			REC 216		
211 TIRE MNTR/DEMTR TS205		10.6		20	12	39				40		20		3.0		REC 216 INVINTORY CONTROL		
			10.6	20		41				42		20		9.0		REC 212, 211		
TOTAL	97.1	92.1	43.6										29.0	28.0	36.5	TOTAL		
SECTION 1 CONNECTED AMPS:													A= 126	B= 120	C= 80			

PANELBOARD SR (SECTION 2)

400 AMPS BUS													250 AMP MCB					
10,000 RMS													3 PHASE, 4 WIRE + GROUND					
NEMA ENCLOSURE: TYPE 1													SURFACE MOUNTED			PANEL LOCATION - 110 ELEC		
LOAD SERVED	LOAD (AMPS)			CB TRIP	WIRE SIZE	CKT	PHASE			CKT	WIRE SIZE	CB TRIP	LOAD (AMPS)			LOAD SERVED		
	A	B	C				A	B	C				A	B	C			
EXTERIOR REC	9.0			20	8	43				44		30	21.0			DRYER		
EXTERIOR REC		6.0		20	8	45				46		30		21.0				
ACCESS CONTROL DOORS			3.0	20	10	47				48	12	20			12.0	WASHER		
ACCESS CONTROL DOORS	3.0			20	10	49				50	10	20	5.0			ECW		
SPARE				20		51				52	12	20		5.0		205 REC FILTER PRESS LC 113		
SPARE				20		53				54		20				SPARE		
SPARE				20		55				56		20				SPARE		
SPARE				20		57				58		20				SPARE		
SPARE				20		59				60		20				SPARE		
SPARE				20		61				62		20				SPARE		
SPARE				20		63				64		20				SPARE		
SPARE				20		65				66		20				SPARE		
SPARE				20		67				68		20				SPARE		
SPARE				20		69				70		20				SPARE		
SPARE				20		71				72		20				SPARE		
SPARE				20		73				74		20				SPARE		
SPARE				20		75				76		20				SPARE		
SPARE				20		77				78		20				SPARE		
SPARE				20		79				80		20						